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 tctcccggaac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180  
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctgcaccaggact 300

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ggctgaatgg caaggagtag aagtgaagg tctccaacaa agccctccca acccccatcg 360
agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
atccaagcga catgcccggtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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gactctagag gat 733

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Trp Ser Xaa Trp Ser
1 5

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```

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
found in the IRF1 promoter (Rothman et al, Immunity 1:457-468
(1994)), 18 nucleotides complementary to the SV40 early promoter,
and a Xho I restriction site.

```

```

<400> 3
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgccatctc aattag 86

```

```

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
Hind III restriction site.

```

```

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gcgggcaagct ttttgcaaag cctaggg 27

```

```

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

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 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

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 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120  
 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
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 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

<400> 6  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
 <211> 31  
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 <213> Artificial Sequence

<220>  
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 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.

<400> 7  
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<210> 8  
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 <212> DNA  
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<400> 8  
 ggggactttc cc 12

<210> 9  
 <211> 73  
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 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer with 4 tandem copies of the NFkB binding site



(GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

```
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gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg      60
ccatctcaat tag                                                                73
```

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<212> DNA
<213> Artificial Sequence
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<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NFkB
binding sites.
```

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caattagtca gcaaccatag tcccgcacct aactccgccc atccgcccc taactccgcc      120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga      180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
cttttgcaaa aagctt                                                                256
```

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<213> Homo sapiens
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<223> n equals a,t,g, or c
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ctgcatggag aaaatgggac agggcctgct aagttcaaca tacctcacag tgttacactt      180
gattcagctg gtcgggtgtg ggttgctgac cgaggaaata aaagaatcca agtatttgat      240
aaagacactg gggagtgggt aggagcatgg aataattgtt tcacagaaga ggaccttctt      300
cagtcagttt actcctgatg ggaagtactt gattgtggcc cagctgaatc ttagcaggct      360
ctcagtcgta gcagcacccc cagtgggaag cattggggag tgttctgtga tcagcacaat      420
ccaactagca gatcaagttt tgccacatct cctagaagtc gacagaaaag actggagcag      480
tctatgtagc agaaattgga gcaaaacaag tacaaaata tgtccctttg aatagctatg      540
ttccttcatt tggttcataa tgtttctttc ccgggaatat ttcaagtggc agttcagatt      600
ctcaattcac taagtgttta aaaatgatgt tcaagcaca gaatttat ttctagtata      660
aaagatctag tatcagaaag atttgttttt gtatcattaa gaatcttata ttttgttgcc      720
ctcttgggac ttagttttat ttgtaagtgc ataaggatat tttaatgaaa ggaaagtaac      780
taaaaaatgg ggttggaag agggactaag gtggtaacct cattatttgc cctggtagac      840
tgattctccc tgngtaaaaa aaatgggaat aaaaatgagc ttgcatgata atttattaaa      900
tttcatgtga agaactccag acctccagat ttgcaacta acataaagtg agctgcttga      960
gagattgtaa ataagatgaa ctattgatta atttgagtac ccacagagtg ctgtgtcttg      1020
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caagcaggca aacagtcaca acacagcaaa agcgaccttg gagcatagtg ggacttttgg      1140
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| agccttttaa | tgttaggaata | aaatggctgg  | catctaagca  | ctttagtaaa  | agagggtttt | 1440 |
| acaaataact | aaggattgta  | gagcttcctt  | ctcttttttt  | ttctttttct  | ttcttttggt | 1500 |
| ttacatgaac | tcaacttatt  | cctaacattt  | gtctacctca  | aagaaatttc  | aagatttatt | 1560 |
| agataacatg | gatatgtgcc  | aaatcctttg  | agctgttaag  | atgataattt  | cctgctttcc | 1620 |
| tcctacatct | tctcctccca  | ctccctcctt  | tgggtgtgaat | attggcttcc  | caattaagac | 1680 |
| cttttttttt | tccagtttgt  | tttagcttat  | tataggtttt  | ggaggaactt  | tgccattttg | 1740 |
| taatctttca | aatcattctt  | cacccttact  | cacatcagct  | tcctgctttt  | cccagtgttt | 1800 |
| tactgtaaat | tgtgtagcat  | atgacaaatc  | ttgagctgac  | tttcctcttc  | acctgttatg | 1860 |
| gctggagtat | tttccagacc  | tgaagggaact | cacacttggt  | ttgatacttg  | gatcacatct | 1920 |
| ccgtgaggtt | aggaaggtaa  | atctaccaac  | aggaagccct  | gtactctgta  | tccaaggcc  | 1980 |
| attggtaaat | gtgttggtgc  | cactgatcgg  | actgtatgac  | cttaacaag   | tcaccttagt | 2040 |
| tttcagtgaa | atgggaatat  | cattgtctcc  | tctttcatga  | atgctgtgag  | aatcagatgt | 2100 |
| gcaacaggta | catacttgcc  | ctttggaaat  | ctaatacctc  | tgggatacca  | ttaagaggca | 2160 |
| ttttaattaa | acaaagggc   | ccttctaaat  | gtgctattta  | tttgacaata  | actatcagat | 2220 |
| ttgccttaat | tttgtgttta  | tagcattttat | caaaacgtat  | cctcatagac  | tttatgcaga | 2280 |
| ttaatatggt | caattgattt  | ggataaaaga  | aagtaatttc  | aggggttggt  | tttaagccag | 2340 |
| gacaagaagt | gcaaatgcct  | ctttgaagca  | atlttaggcta | aactgattt   | gaaatttcaa | 2400 |
| aatgttttat | tttactttgt  | tttattaagc  | caggacaaga  | agtgc aaatg | cctctttgaa | 2460 |
| gcaattcagg | ctaggtaaac  | cgattttgcc  | atltcaaaac  | gttttatatt  | actttgwttt | 2520 |
| rtrtcagagt | yttawaarvc  | ctgctgcaaa  | tatttctgaa  | tgtctttgta  | aaagtgtttg | 2580 |
| ttagtgtacc | tgtgattata  | gtacttcact  | tttttccttt  | ggattaattg  | gttaaatgaa | 2640 |
| tgagaaatgt | gttatgtttt  | ttactaaaaa  | gtataaatta  | aaattttgga  | aagaaaaggc | 2700 |
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| acctcagctt | gtggctcttg | gccccagcc  | ccaccaaccc | acctgttcat | ttattcaaca | 120 |
| gacaatgaca | gctgatattt | attggacatt | tgcaccatgc | caagcattcg | gcttgatta  | 180 |
| tcccatttgt | ttctcacagc | cggtatttat | tgtctgctcc | tctgtgccag | gtgctgtgct | 240 |
| ctgggcaggg | gcactgcatg | ggctgcctgc | cctggtgagg | cttgtggtct | gatgggtgag | 300 |
| gctgacccaa | gcccacccca | ttgccaacag | ggccagggca | aggtacaca  | caggggcctc | 360 |
| ataccatatt | tctaaatatt | taaaaagtta | tcaatcaagc | taacaactgt | taaataaaat | 420 |
| atgttctatt | ctcctacttt | gaaaaaaaaa | aaaaaaaaaa |            |            | 459 |

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| aaggcccggc | tgttccggct | gtggctgggt | ctggggctcg | tgttcatgat | cctgctgac  | 180 |
| atcgtgtact | gggacagcgc | aggcgccgcg | cacttctact | tgacacgtc  | cttctctagg | 240 |
| ccgcacacgg | ggccgcccgt | gcccacgccc | gggcccggca | gggacaggga | gctcacggcc | 300 |
| gactccgatg | tcgacgagtt | tctggacaag | tttctcagtg | ctggcgtgaa | gcagagtggc | 360 |
| cttcccagaa | aggagacgga | gcagccgcct | gcgcccggga | gcatggagga | gacgtgagaa | 420 |
| gctacgactg | gtccccgcgc | gacgcccggc | gcagcccaga | ccagggccgg | cagcaggcgg | 480 |
| agcggaggag | cgctgtgcgg | ggcttctgcg | ccaactccag | cctggccttc | cccaccaagg | 540 |
| agcgcgcatt | cgacgacatc | cccaactcgg | agctgagcca | cctgatcgtg | gacgaccggc | 600 |

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
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| tcgtgctgag  | cggaagcctg | ctgcaccgcg | gtgcgcccta | ccgcgacccg  | ctgcgcatcc | 720  |
| cgcgcgagca  | cgtgcacaac | gccagcgcg  | acctgacctt | caacaagttc  | tggcgcgct  | 780  |
| acgggaagct  | ctcccgccac | ctcatgaagg | tcaagctcaa | gaagtacacc  | aagttcctct | 840  |
| tcgtgcgcga  | ccccttcgtg | cgcctgatct | ccgccttccg | cagcaagttc  | gagctggaga | 900  |
| acgaggagtt  | ctaccgcaag | ttcgccgtgc | ccatgctgcg | gctgtacgcc  | aaccacacca | 960  |
| gcctgcccgc  | ctcggcgcgc | gaggccttcc | gcgctggcct | caagggtgtcc | ttcgccaact | 1020 |
| tcattccagta | cctgctggac | ccgcacacgg | agagctggc  | gcccttcaac  | gagcactggc | 1080 |
| ggcaggtgta  | ccgcctctgc | caccctgtgc | agatcgacta | cgacttcgtg  | gggaagctgg | 1140 |
| agactctgga  | cgaggacgcc | gcgcagctgc | tgcagctact | ccagggtggac | cggcagctcc | 1200 |
| gcttcccccc  | gagctaccgg | aacaggaccg | ccagcagctg | ggaggaggac  | tggttcgcca | 1260 |
| agateccccct | ggcctggagg | cagcagctgt | ataaactcta | cgaggccgac  | tttgttctct | 1320 |
| tcggctaccc  | caagcccga  | aacctcctcc | gagactgaaa | gctttcgcgt  | tgctttttct | 1380 |
| cgcgtgcctg  | gaacctgacg | cacgcgcact | ccagtttttt | tatgacctac  | gattttgcaa | 1440 |
| tctgggcttc  | ttgttcactc | cactgdcct  | atccattgag | tactgtatcg  | atattgtttt | 1500 |
| ttaagattaa  | tatatctcag | gtatttaata | cgaaatgtgg | aagggaatgc  | tggagtaaaa | 1560 |
| tatccccctct | cccctccgcc | cgcccacccg | cccgcgcgct | cgcccgcctg  | cccgtcctg  | 1620 |
| tggttttttct | gagcgtgcgg | gcgcggggag | gggatgctga | ggctgatgga  | gctgcctca  | 1680 |
| gggctagggc  | cactcaccgg | aggagggcgg | ggcctgcact | tgaagtcagg  | ccgcacctgt | 1740 |
| ctgttttttg  | aagggtagcc | gacaaatcct | tccagaggga | aagttctttg  | tttaagtgtt | 1800 |
| gtacttgaaa  | aggtcaatct | tcagggcttc | ctgtttgaag | tcaagtcaga  | ggtaaaccgg | 1860 |
| tcagttacag  | aagcaggatt | tcaggatttt | ctaactccag | ctgttcccat  | actgtctagt | 1920 |
| ttaaattatg  | gctgttaag  |            |            |             |            | 1939 |

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 <223> n equals a,t,g, or c

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<220>  
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| ttaggagagg | gggcaggggg | gcagcagtag | aaatgtggcg  | gggtccgact  | tgggtgtttcc | 120 |
| ggccgtcttt | gtgtctrtgt | tgtgtatgtg | gagtgatcatt | cggctctttat | gtccctcacg  | 180 |
| gcttcagtct | ctccatgtgt | gtttctgccc | caggctctgc  | ctgctgtcc   | cttgtgtatt  | 240 |
| ccatctgtct | agcccgtgg  | tccatgtcag | amcggstttc  | ttctcgggam  | agcctgggtg  | 300 |
| catctggggc | atctgttttg | ttggtttgct | tctgggtgca  | ngcagaccca  | ggagtgggtg  | 360 |
| tctctgtttc | ccgagcanct | gtctctggtc | tctgggtggtg | tgtgagtcca  | tctgcctgcc  | 420 |

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| tcgantttggc | cccaaccaag | cccccccan  | ccctctcttt | ctctctctca | atcttccctt | 480 |
| tctcttccaa  | cccctccaaa | tgagatggtt | gagtgccgtg | ggttggaggg | aagcaatggt | 540 |

<210> 15  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (613)..(613)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (623)..(623)  
 <223> n equals a,t,g, or c

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 15   |             |            |             |            |            |     |
| ggtcgaccca | cgcgctccggt | catggccatc | cagagccctgc | acccttgccc | ctcagagctc | 60  |
| tgctgcaggg | cctgcgtgas  | ytittaccac | tgggcgatgg  | tggctgtgac | gggcggcgtg | 120 |
| ggcgtggccg | ctgccctgtg  | tctctgtagc | ctcctgctgt  | ggccgaccg  | cctgcgacgc | 180 |
| tcccgaaggc | gagaacaccg  | aacacccagt | gaaggtgagg  | ggatcagcac | ggcgccgcca | 240 |
| ccgtgctgga | acgagactca  | gccacaagga | ggtgcgaagc  | tctgacccag | gccacagtgc | 300 |
| ggatgcacct | tgaggatgtc  | acgctcagt  | agacaccca   | gacacagaag | ggtacgctgt | 360 |
| gatcccactt | ctatgaaatg  | tccaggacag | accaatccac  | agaatcaggg | agaggattcg | 420 |
| tgggtgccgg | gactggggag  | ggggacctgg | gggtgactag  | gtgacataat | ggggacaggg | 480 |
| ctgccttctg | ggtgatgaga  | atgttctgga | atcagatggg  | atggctgcac | ggcgtggtga | 540 |
| aggtactgaa | cgccacctca  | ctgtaagacg | gtagattttg  | tattttacca | caataaacia | 600 |
| aacaaaacaa | aanmaaaaaa  | aanaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaa       | 654 |

<210> 16  
 <211> 1445  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| <400> 16   |             |             |             |            |            |      |
| ggcagcaggg | atttgaacaa  | gatcattaga  | attcmaaaaa  | caccagaaat | gaaagatctt | 60   |
| tcctgaagct | gttttaggaat | attcatgata  | tacccttaac  | tgttctagag | aacaaaatgc | 120  |
| gtctgtgctc | cttcacaaaa  | gtccctatga  | atttgtttct  | caatgtgatc | cttcttaagt | 180  |
| tctataactt | tttgttttca  | ttaatttttag | gaaaatcctg  | ccttgcttcg | ttgggcctat | 240  |
| gcaagaacaa | taaatgtcta  | tcctaatttc  | agacccactc  | ctaaaaactc | actcatggga | 300  |
| gctctgtgtg | gatttggggc  | cctcatcttc  | atttattata  | ttatcaaaac | tgagagggta | 360  |
| agtattcaga | ccagatgttt  | agtatttgag  | tgataggttc  | actttctagg | gaccagctgc | 420  |
| agctccttct | cttgaagatt  | gccaccagt   | cccctcccac  | cttggggctg | tcctctgcct | 480  |
| tccttctctc | tcttctttta  | tctttattcc  | tttccagcag  | gagttaaaac | agaaagtttt | 540  |
| cagtcacctt | tgtctatttt  | tgttagttca  | tttgtttttt  | aaaaagatga | tgtttatttg | 600  |
| gttaagtatt | agcagaatac  | ataaatcatt  | tagtacgttt  | cctgtttgcg | tgaattctat | 660  |
| ttatgttgg  | cacatttttg  | aaattaatgt  | taaaacctat  | taatactcta | cgggacagag | 720  |
| aagcacaaag | tgctgtgtg   | gggaatagct  | gccgtcagca  | gcctgggtat | atgattggag | 780  |
| agaaagtcaa | gctgatcttt  | ggcaccaaac  | cattccacat  | ctggtactaa | accctgagct | 840  |
| gcagccccc  | ggcttgtgtt  | gccatggag   | cccactcgte  | tagctttgtc | tttaactggc | 900  |
| ccatctgcat | tccatttaga  | gttcgtgtat  | tttgattatc  | tggtgaatga | tctacttaac | 960  |
| agaaaggtag | tccacatttt  | cccagaaaag  | gtttgcattt  | tgctttcaat | atatggtttt | 1020 |
| atgggataat | atattttctaa | tgactaaaaa  | gtgagtaaga  | tgtttttgaa | taggacatt  | 1080 |
| ttcttactgt | gtcttttagt  | cctcggtatta | ctgtttcttc  | gcacactccc | tgggctttag | 1140 |
| acagtgggat | tgcaatttag  | tttggagtgt  | ttcatttctgt | ttgtcagttg | tacgggtggg | 1200 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| tgtgccaaaa | tgcagttttt | cttacctttt | ttattttattt | atttttatct | aatatagcca | 1260 |
| actggcagaa | tatatgtgt  | ttaatgtact | ttttttctgt  | ctttacagga | taggaaagaa | 1320 |
| aaacttatcc | aggaaggaaa | attggatcga | acatttcacc  | tctcatatta | agtctggcaa | 1380 |
| tgatgactat | atgtattcct | gcctaaataa | atcatctatt  | aatcattaaa | aaaaaaaaaa | 1440 |
| aaaaa      |            |            |             |            |            | 1445 |

<210> 17  
 <211> 1722  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 17    |             |             |             |             |             |      |
| ggcacgagcc  | agagcaggct  | gctaggcctg  | gggccaccac  | tgccccctggg | tgctacacccc | 60   |
| agtgtgctgg  | gtcactggga  | acttccctgaa | gtggtgtcac  | ctgaactggg  | cccccaagga  | 120  |
| tgggggtgctg | gcagtaccgc  | aggaagagga  | gcagccccctg | tgaagattga  | gagctgccag  | 180  |
| aggctctgtg  | attggctgctg | gcacgatgac  | ccgcgcacgg  | attggctgct  | tcggggccggg | 240  |
| gggccggggcc | cgggggacag  | aatccgcccc  | cgaaccttca  | aagagggtac  | cccccggcag  | 300  |
| gagctggcag  | accyaggagg  | tgcgacagac  | ccgcggggca  | aacggactggg | ggccaagagc  | 360  |
| cgggagcgcg  | ggcgcaaagg  | caccagggcc  | cgcccagggc  | gccgcgcagc  | acggccttgg  | 420  |
| gggttctgctg | ggccttcggg  | tgcgctctc   | gcctctagcc  | atgggggtccg | cagcgttgga  | 480  |
| gacccctgggc | ctggtgctgt  | gcctgggtggg | ctgggggggt  | ctgatccctgg | cgtgcgggct  | 540  |
| gcccattgtgg | caggtgaccg  | ccttcctgga  | ccacaacatc  | gtgacggcgc  | agaccacctg  | 600  |
| gaaggggctg  | tggatgtcgt  | gcgtgggtgca | gagcacsggg  | cacatgcagt  | gcaaagtgtg  | 660  |
| cgactcggtg  | ctggctctga  | gcaccgaggt  | gcaggcggcg  | cgggcgctca  | ccgtgagcgc  | 720  |
| cgtgctgctg  | gcgttcgttg  | cgctcttcgt  | gaccttggcg  | ggcggcagt   | gcaccacctg  | 780  |
| cgtggccccg  | ggccccggcca | argcgctgt   | ggccctcacg  | ggaggcgtgc  | tctacctgtt  | 840  |
| ttgcgggctg  | ctggcgctcg  | tgcactctg   | ctgggttcgcc | aacattgtcg  | tccgcgagtt  | 900  |
| ttacgaccgg  | tctgtgcccc  | tgtcgcagaa  | gtacgagctg  | ggcgcagcgc  | tgtacatcgg  | 960  |
| ctggggcgcc  | accgcgtgc   | tcattggtagg | cggctgcctc  | ttgtgctgctg | gcgcctgggt  | 1020 |
| ctgcaccggc  | cgccccgacc  | tcagcttccc  | cgtgaagtac  | tcagcgccgc  | ggcggcccac  | 1080 |
| ggccaccggc  | gactacgaca  | agaagaacta  | cgtctgaggg  | cgctgggcac  | ggccggggccc | 1140 |
| ctcctgccag  | ccacgcctgc  | gaggcggttg  | ataagcctggg | ggagccccgc  | atggaccgcg  | 1200 |
| gcttccgcgg  | ggtagcgcg   | cgcgcaggct  | cctcggaacg  | tccggctctg  | cgccccgacg  | 1260 |
| cggctccttg  | atccgctcct  | gcctgcgccc  | gcagctgacc  | ttctcctgcc  | actagcccgg  | 1320 |
| ccctgccctt  | aacagacgga  | atgaagtttc  | cttttctgtg  | cgcggcgctg  | tttccatagg  | 1380 |
| cagagcgggt  | gtcagactga  | ggatttcgt   | tcccctccaa  | gacgctgggg  | gtcttggctg  | 1440 |
| ctgccttact  | tcccagaggc  | tctgctgac   | ttcggagggg  | cggatgcaga  | gcccagggcc  | 1500 |
| cccaccgaa   | gatgtgtaca  | gctgggtctt  | actccatcgg  | caggggcccga | gcccagggac  | 1560 |
| cagtgaactt  | gcctggacct  | cccggctctc  | ctcagcatc   | tccccaggca  | aggcttgtgg  | 1620 |
| gcaccggagc  | ttgagagagg  | gcgggagtg   | gaaggctaag  | aatctgctta  | gtaaatggtt  | 1680 |
| tgaactctca  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aa          |             | 1722 |

<210> 18  
 <211> 1453  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (946)..(946)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 18   |            |            |            |            |            |     |
| ggtcatcttt | ctcttgctcg | tacagagagg | agacaccctg | agaaatggag | atttctacta | 60  |
| cagatgaaaa | tttcttttat | aaaagggtaa | cttctctgta | ttatcctgtg | tttgctattt | 120 |
| ctgaaaaata | taagctgaaa | atattcctct | tggcataag  | gattatttgg | tgtggcatgt | 180 |
| tctgaacctc | cactgttggc | atcctttctt | gattagcaga | aacctaggaa | cattgttcta | 240 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ataatgacta  | aattattgtc  | actgtcacat  | ttgttagtaa | ctttttttaa | tataattgcc  | 300  |
| attaaatgta  | aaaagcagca  | tctaagacat  | tcaaaatgta | atttkgatac | tacttttaaa  | 360  |
| aataagatgc  | taaattaata  | gataaggtgg  | gtttcctcag | tatatattca | ttctaaacca  | 420  |
| tccactaaag  | tagggctaaa  | gaggaattta  | gagtaggaag | acttaggttt | tgtattctgc  | 480  |
| ctttgttcag  | tatcagtgtg  | actttggcca  | agttacctga | cttctgaact | gcattttgct  | 540  |
| tttctctaaa  | taagtggggg  | taatacdat   | attagaggat | tatgataaaa | agatgtgaac  | 600  |
| atattataaa  | attattttat  | aaactagaag  | acatttcaaa | gaagttaagc | tgccactggt  | 660  |
| agtttcacag  | acttgggtgt  | attagatgaa  | cagcttttca | gttattgctt | ctatagttgt  | 720  |
| cctcttgccc  | tttctgggat  | tatcagtttc  | tgctgtctta | cctagtcatt | cccatcagg   | 780  |
| taaaacattt  | ataytgttat  | ttcttccaag  | ttcagaaaaa | accctctyty | gaytcccccc  | 840  |
| atcccattcc  | agcactttgg  | gaggccaagg  | cgggcagatc | atgaggtcag | gagatcgagm  | 900  |
| ccatytctggc | taacatgggtg | acccccatct  | ctactaaaaa | tacaanacaa | attagccggg  | 960  |
| cttgggtggtg | ggcgccctgta | acccagcta   | cgggggaggc | tgaggcagga | gaaaggcatg  | 1020 |
| aaccaggag   | gcagagcttg  | cagtgaagca  | agattgcgcc | attgcactcc | agcctgggcg  | 1080 |
| acagagtgaag | actccatctc  | aaaaaaaamga | awaaaaaaa  | caacttattt | taaattattt  | 1140 |
| tcctagaaat  | tatgatgtca  | gcagaggtag  | ctagggtggt | ttatggttga | ctttgttat   | 1200 |
| ttttaagaca  | gcttccgtat  | ttcttaggag  | ttttgctgaa | gaacatggta | tggggagaaac | 1260 |
| atataatatt  | ctcatacact  | tcttaggatg  | ggatagatcc | ctgtaacaga | atattggtta  | 1320 |
| acaagagaaa  | aacaagtttt  | aagacatgta  | tacctcatat | atacatggga | gatactcggg  | 1380 |
| ggaagtgaat  | aaatctctca  | gaggtggctt  | aaataccatc | atgtcctgaa | aaaaaaaaaa  | 1440 |
| aaagggcggc  | cgc         |             |            |            |             | 1453 |

<210> 19  
 <211> 1752  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (356)..(356)  
 <223> n equals a,t,g, or c

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| <400> 19    |             |             |             |            |             |      |
| gtcggcgggcg | gcgggcgggcg | ttgaactgac  | tggagcgag   | gagaccgag  | cgagcagacg  | 60   |
| cggccctggc  | gcccgccctg  | cgcactcacc  | atggcgatgc  | atttcatctt | ctcagataca  | 120  |
| gcggtgcttc  | tgtttgattt  | ctggagtgtc  | cacagtcctg  | ctggcatggc | cctttcgggtg | 180  |
| ttggtgctcc  | tgcttctggc  | tgtactgtat  | gaaggcatca  | agggttgcaa | agcaagctgc  | 240  |
| tcaaccaggt  | actggtgaac  | ctgccaaact  | ccatcagcca  | gcagaccatc | gcagagacag  | 300  |
| acggggactc  | tgcaaggctca | gattcattcc  | ctggtggcag  | aaccacccac | aggtgntatt  | 360  |
| tgtgtcaactt | tgggcagttc  | ctaataccatg | tcatccaggt  | ggtcacggc  | tacttcatca  | 420  |
| tgctggccgt  | aatgtcctac  | aacacctgga  | ttttccttgg  | tgtggtcttg | ggctctgctg  | 480  |
| tgggctacta  | cctagcttac  | ccacttctca  | gcacagctta  | gctggtgagg | aacgtgcagg  | 540  |
| caactgaggt  | ggagggacat  | ggagccccct  | cttcagaca   | ctatacttcc | aactgccctt  | 600  |
| tcttctgatg  | gctattcctc  | caccttattc  | ccagccccctg | gaaactttga | gctgaagcca  | 660  |
| gcacttgctc  | cctggagttc  | ggaagccatt  | gcagcaacct  | tccttctcag | ccagcctaca  | 720  |
| tagggcccag  | gcatgggtctt | gtgtcttaag  | acagctgctg  | tgaccaaagg | gagaatggag  | 780  |
| ataacagggg  | tggcagggtt  | actgagccca  | tgacaatgct  | tctctgtgac | tcaaaccagg  | 840  |
| aattttccaaa | gatttcaagc  | cagggagaag  | ggttcttgg   | gatgcagggc | atggaacctg  | 900  |
| gacacctca   | gctctcctgc  | tttgtgcctt  | atctacagga  | gcatcgccca | ttggacttcc  | 960  |
| tgacctcttc  | tgtctttgag  | ggacagagac  | caagctagat  | cctttttctc | acctttctgc  | 1020 |
| ctttggaaca  | catgaagatc  | atctcgtcta  | tggatcatgt  | tgacaaacta | agtttttttt  | 1080 |
| atttttccca  | ttgaactcct  | agttggcaat  | tttgcacatt  | catacaaaaa | aatttttaaat | 1140 |
| gaaatgattt  | cattgattca  | tgatggatgg  | cagaaaactgc | tgagacctat | ttccctttct  | 1200 |
| tggggagaga  | ataagtgaac  | gctgattaaa  | ggcagagaca  | caggactgct | ttcaggctcc  | 1260 |
| tggtttattc  | tctgatagac  | tgagctcctt  | ccaccagaag  | gcactgcctg | caggagaag   | 1320 |
| awgatctgat  | ggccgtgggt  | gtctgggaag  | ctcttcgtgg  | cctcaatgcc | ctcctttatc  | 1380 |
| ctcatctttc  | ttctatgcag  | aacaaaaagc  | tgcatctaata | aatgttcaat | acttaatat   | 1440 |

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| ctctatattat | tacttactgc | ttactcgtaa | tgatctagt   | gggaaacatg | attcattcac | 1500 |
| ttaaaataact | gattaagcca | tggcaggtag | tgactgaaga  | tgcaatccaa | ccaaagccat | 1560 |
| tacattttttt | gagttagatg | ggactstctg | gatagttgaa  | cctcttcact | ttataaaaaa | 1620 |
| ggaaagagag  | aaaatcactg | ctgtatacta | aatacctcac  | agattagatg | aaaagatgg  | 1680 |
| tgtaagcttt  | gggaattaaa | aacaaacaaa | tacatttttag | taaatatata | tttttaaata | 1740 |
| aaaaaaagaa  | aa         |            |             |            |            | 1752 |

<210> 20  
 <211> 2321  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (787)..(787)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (880)..(880)  
 <223> n equals a,t,g, or c

|            |            |             |     |           |             |      |
|------------|------------|-------------|-----|-----------|-------------|------|
| <400> 20   |            |             |     |           |             |      |
| gtgaaagtgg | gccttgga   | aa          | tt  | aa        | gctgc       | 60   |
| agtgtgatac | attctctaaa | gcaacatg    | gt  | aaaa      | actgctttct  | 120  |
| tatatcttgt | tttctccagg | cttcgtggac  | tc  | gaccagag  | aagcaagagg  | 180  |
| ctgaccacta | gccagtcctt | agttttgaaa  | gc  | attacag   | ttaa        | 240  |
| aataaccaga | catgctaaac | taattagtaa  | tt  | tagctaaa  | gaatagg     | 300  |
| acattactta | gcaatagtat | catttaggat  | gag | caagcaa   | gctgtgttg   | 360  |
| acaaatccat | attatttcct | aaaactggat  | ct  | tattctct  | tgctgg      | 420  |
| catccaggta | attacaccaa | tagaaataaa  | tt  | gcccccaa  | ttcccaggcc  | 480  |
| aaatggtgaa | agttttttg  | ctcacatgg   | tg  | atgtgg    | ctggaccata  | 540  |
| gttagtgatc | taaaaaccca | ctcctccctt  | tc  | ctttccag  | ctcaactcat  | 600  |
| acttatttta | taatgatcag | tcttggtaaa  | tt  | atcacatc  | acgtttcatc  | 660  |
| tgcaaatgac | atctctcg   | ggttttccca  | aa  | ttgctaaa  | cgtatctctgt | 720  |
| agagcatyaa | atttatgaga | ttagaatgat  | gt  | ggttacaaa | tggttttatg  | 780  |
| tcagtancat | ttaacctttg | aaatttctct  | gac | tattgc    | ttcagtttg   | 840  |
| acttarittg | aaaactgaar | ttaagtatta  | at  | cttttaggn | tttgattgcc  | 900  |
| amcctactta | tgatcatgam | tataattttt  | ta  | ccccgattt | atatgaagta  | 960  |
| aaaatgaaac | cagtgga    | cagatgagat  | tc  | aaggatct  | aatctctaag  | 1020 |
| aagttgcctt | tgccctttat | ccagatggg   | ct  | tttgatcgt | gtaatgctat  | 1080 |
| catcatgatc | ctatagattc | tgtattttta  | tt  | tggtaaa   | ctatcctta   | 1140 |
| aatgataayt | attcagaacg | tataactcaa  | gt  | gttcagg   | caaggytata  | 1200 |
| tgctgtttta | tatttaaaag | ttgactgcct  | gt  | ccccaggc  | actgatctta  | 1260 |
| atgaacaggc | tgccattgtc | maattcartt  | cm  | ttataaac  | ttccygtgtw  | 1320 |
| ctcccygtca | ttgggatgac | tggttaagtgc | ac  | agcctcac  | tgagaggc    | 1380 |
| gcacaggaat | cacttagtgc | tgtcacagg   | tg  | gggtgcttt | attgtccaaa  | 1440 |
| ccactgggat | tggggaagag | agagaagggt  | ta  | attatcag  | ccaytcttaa  | 1500 |
| atctcattct | gcttgccttc | atacaacttt  | cc  | ttgtcat   | ctcatttaga  | 1560 |
| gaggagctga | gatttatcag | ggagcattaa  | gg  | agatgtta  | agagaattat  | 1620 |
| ggaagtaata | ggtttactcc | catgaaagca  | gac | acctcac   | tctgtttttc  | 1680 |
| ttatcatgag | tgtcttactt | tggacgtaat  | tg  | actttcaa  | gtgaatgctg  | 1740 |
| tcagaagttc | cattctctcc | tgtttgtctc  | att | tgagat    | gaagaccata  | 1800 |
| agtgcaaaag | aaggctcagg | ttatggccaa  | tt  | ctattttg  | taagttctaa  | 1860 |
| acttttacct | ggaaggagg  | agacaaaaac  | at  | tttgatga  | gaagaataat  | 1920 |
| cttcatat   | ttggggaaaa | aaggagt     | ct  | gccatca   | atatcttttc  | 1980 |
| agagctcatc | tcctccttct | gctgcagcct  | gg  | gtgctcag  | catgactttt  | 2040 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| gctggttaggt | ggcacaccct | gaagttgtgc | aggagccata | gtaaaagcat | ttcaggggaa | 2100 |
| gatagtctaa  | tgacactgga | gtctatctgt | gtatcctcaa | agggagaact | gggcatctgg | 260  |
| cagataattc  | catcatcaaa | tctgtagtga | gcctactgca | aaataagaat | tctctttaga | 2220 |
| aggctggtct  | gtggacatca | ttaaacagga | gaaatttcca | catggagaaa | tttcttgaaa | 2280 |
| gaaactagat  | aggaattaaa | aaaaaaaaaa | aaaaactcgt | a          |            | 2321 |

<210> 21  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 21    |            |            |            |            |             |     |
| acgagccac   | ccgtttctgc | agatgccgc  | atcatggtcc | tgaggggatg | ggggctggcc  | 60  |
| tgagccctt   | ccccgtggt  | gtgtggctat | agcggggaca | tgaagggggt | gtgttgggga  | 120 |
| cgtagtgacc  | actcccttct | accgtcagag | atcctgcttc | cccctgcccc | ctgccccctcc | 180 |
| tcggctgtcc  | ttcataaccc | cccacccact | ccccacctgc | catctcctgt | gcttggtcgg  | 240 |
| atccaggaag  | cacctacctg | ggcacagaga | tcctcgtctg | gtgcctcgcc | cctacacaag  | 300 |
| ggcgattaac  | ttctctgtta | tgaactccta | cttagtaatt | ctgacatgaa | actcccacta  | 360 |
| ggataaaaact | tggcgagaa  | cagcaattac | tgaaaacaca | tttttaaaaa | ggttgatggt  | 420 |
| ttgtaagagt  | tcctcctcct | ccactcctca | gcctcctcaa | ggagacacat | atttagatct  | 480 |
| tctctgtgtg  | agtctaactt | ggagactgtg | agttgcagtt | taaaaggggc | tctggggcca  | 540 |
| ggtgcggtgg  | cacacacttg | tggctcagc  | tactcaagag | gctgagatgt | gaggaacgct  | 600 |
| tgagcccagg  | agttcaagac | cagcctgagc | aacatgggta | gatgggatct | acccaaaaca  | 660 |
| tttaacaata  | aggctggcat | ggtggcatat | gcctgtggtc | ccagctactt | ggaggctgag  | 720 |
| gcaggagaat  | catttaagcc | tgggagatcg | aggctgcagt | gaggtatggt | ttcaactgct  | 780 |
| gtgctccagc  | ctgggagaca | gggaataact | gtgtctctaa | aaaataaaaa | aaaaaaaaaa  | 840 |
| aaa         |            |            |            |            |             | 843 |

<210> 22  
 <211> 1382  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 22    |             |            |             |             |             |      |
| acgagtgcg   | gcagcagcag  | ccccggcacg | mgggagagag  | acaaagcatg  | gaggacacaa  | 60   |
| caatgggagg  | aaaggcggac  | tctcaggaac | ttcattcttc  | acgtgggtta  | tggtgattgc  | 120  |
| attgctgggc  | gtctggacat  | ctgtacctgt | cgtttggttt  | gatcttggtt  | ttgatgagca  | 180  |
| gattactagc  | caaagcaaa   | gacttccgtt | ataacttatc  | agaggtgctt  | caaggaaaac  | 240  |
| taggaatcta  | tgatgctgat  | ggtgaggag  | atcttgatgt  | ggatgatgcc  | aaagttttat  | 300  |
| taggcctgac  | caaagatggc  | agtaatgaaa | atattgattc  | tcttgaggaa  | gtccttaata  | 360  |
| ttttagcaga  | ggaaagtcca  | gattgggttt | atggtttcct  | ctcatttctc  | tatgatataa  | 420  |
| tgactccttt  | tgaaatgcta  | gaagaagaag | aagaagaaa   | cgaaaccgca  | gatgggttg   | 480  |
| atggtacgtc  | acagaatgaa  | ggggttcagg | gaaagacttg  | tgatcatatt  | gatttacata  | 540  |
| accagtaacc  | ttgattcagg  | gactgaagtc | attggctaata | gaacacctga  | agcagcctcc  | 600  |
| tttttctttt  | ctttccttgg  | cttatgcagg | gcttaatgtg  | cagtgggggtg | gttggtgatct | 660  |
| taccgtgcaa  | gtcaaccatg  | tgatcttgcc | cagtacagct  | actagcctag  | tcccttgctc  | 720  |
| gctcagctcc  | cccaacttct  | attgaagaaa | atggactacc  | tcattcttgt  | agtcagctac  | 780  |
| aaagtacact  | gaaaatgatg  | ttcttggtgg | tataattggt  | ttctgtatcg  | ttttgtttca  | 840  |
| actcatgtat  | tcactgaact  | aaatttggac | acttaacagc  | aaattgtgtg  | tggttaacc   | 900  |
| cttgatgctt  | gtcttttctaa | cacactatta | attatgatga  | ttctaatagga | tttcattata  | 960  |
| aaaatatattc | tggcatgatt  | tttaagttaa | atgcttctct  | gttctttaac  | atgactgatg  | 1020 |
| tataaaatga  | tggttctttt  | actaagctga | tattttttat  | tgtaatttgt  | ttagggttgt  | 1080 |
| cagatagggt  | catacaaaa   | taaaagttaa | attctgtggt  | aatgggtgctt | ttaaaataat  | 1140 |
| ttaaaaataaa | ttgccatggt  | gtccttaga  | gtaagttaac  | ttactgtttt  | cagatagtag  | 1200 |
| catgacatat  | ttctgtctgt  | gaaagcaaaa | tttattttta  | attttatttc  | caaataataca | 1260 |
| tccagagaaa  | gtaatttgta  | ttttttttta | agtaggcata  | ttacaaaga   | gggaacatgt  | 1320 |
| gaatatgtat  | cttaatgttg  | tacataggga | aattattcat  | cctaaaaaaa  | aaaaaaaaaa  | 1380 |



aa

1382

<210> 23  
<211> 1734  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1714)..(1714)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1719)..(1719)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1723)..(1723)  
<223> n equals a,t,g, or c

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aaaagcagtt tagagtggta aaaaaaaaaa aaaacacacc aaacgctcgc agccacaaaa 120  
gggatgaaat ttcttctgga catcctcctg cttctcccggt tactgatcgt ctgctcccta 180  
gagtccttcg tgaagctttt ttttcttaag aggagaaaaat cagtcaccgg cgaaatcgtg 240  
ctgattacag gagctgggca tggaattggg agactgactg cctatgaatt tgctaaactt 300  
aaaagcaagc tggttctctg ggatataaat aagcatggac tggaggaaac agctgccaaa 360  
tgcaagggac tgggtgccaa gggtcatacc tttgtggtag actgcagcaa ccgagaagat 420  
atttacagct ctgcaaagaa ggtgaagca gaaattggag atgttagtat tttagtaaat 480  
aatgctggtg tagtctatac atcagatttg tttgctacac aagatcctca gattgaaaag 540  
acttttgaag ttaatgtact tgcacatttc tggactacaa aggcatttct tcttgcaatg 600  
acgaagaata accatggcca tattgtcact gtggcttcgg cagctggaca tgtctcgtc 660  
cccttcttac tggcttactg ttcaagcaag tttgctgctg ttggatttca taaaactttg 720  
acagatgaac tggctgcctt acaataaact ggagtcaaaa caacatgtct gtgtcctaata 780  
ttcgtaaaaca ctggcttcat caaaaatcca agtacaagtt tgggaccac tctggaacct 840  
gaggaagtgg taaacaggct gatgcatggg attctgactg agcagaagat gatttttatt 900  
ccatcttcta tagctttttt aacaacattg gaaaggatcc ttcttgagcg tttcttgga 960  
gttttaaaac gaaaaatcag tgtaagttt gatgcagtta ttggatataa aatgaaagcg 1020  
caataagcac ctagttttct gaaaactgat ttaccagggt taggttgatg tttctaata 1080  
gtgccagaat tttaatgttt gaacttctgt tttttctaata tatccccatt tcttcaatat 1140  
catttttgag gctttggcag tcttcattta ctaccacttg ttcttttagcc aaaagctgat 1200  
tacatatgat ataaacagag aaataccttt agaggtgact ttaaggaaaa tgaagaaaaa 1260  
gaacccaaat gactttatta aaataatttc caagattatt tgtgggtcac ctgaaggctt 1320  
tgcaaaatgt gtaccataac cgtttattta acatatattt ttatttttga ttgcacttaa 1380  
attttgtata atttgtgttt ctttttctgt tctacataaa atcagaaact tcaagctctc 1440  
taaataaaat gaaggactat atctagtggg atttcacaat gaatatgt aactctcaat 1500  
ggtaggttt catcctaccc attgccactc tgtttcctga gagatacctc acattccaat 1560  
gccaaacatt tctgcacagg gaagctagag gtggatacac gtgttgcaag tataaaagca 1620  
tactgggat ttaaggagaa ttgagagaat gtaccacaaa atggcagcaa taataaatgg 1680  
atcacactta aaaaaaaaaa aagggggggc cgcncctggng ggnccaagct ttcg 1734

<210> 24  
<211> 1357  
<212> DNA  
<213> Homo sapiens

```

<400> 24
ggcacgagtt tatttacagg catataaaat gaaattgtga gatgttttgc aagcttcttt 60
ttacttttgag tagcttttaa tttgtatgtt tttatgtgga tgaagagat tttttatgct 120
tttgtgcaat aggttccaat atgcatttat tagacatctg tttaaatggt aatgtagcat 180
ttatttttgct aaattgaaag ggaacataga tggaaattcca aaatatgtac attcagctgt 240
ttggtttttc gtttttcatt gttattattg tgagaatgct gttattgggg ttgtgtgtga 300
gtgcccgtca gccagtgatg cctcggggcca cgctgtgggg ccacctcagt cctgcctggg 360
tcctggtgcc ttggaccca cgtgcttgtg gccaggctgc ccctgggagg ggccatgtgg 420
cctcagacca caagagcgga ctgccctggc ccaagcactg cagctgcctg caccctcggg 480
cttcgcagcc ttgcttgttt tctctgaaca gcaacagaac aggttcaca gcgattcaaa 540
gggtggcatt gggttggacg ttctgggtac aagccaacct agtcccacgt tgtacgtgaa 600
tgtttaaatgt gctctcaaaa catggaaaat aagtttagtg cacatagcta aatcacaaaa 660
catccaattt ctctgtttcc tcaggaagtc attactgctc caccacatca catgacctta 720
acatgatcaa tgtattttct tgccttgaca tttaaatata taaattgaga taagtagatt 780
agaaaatcat tcaaatgata ccataatttg tacgggacag ggtgcgggca atggccacgt 840
ggccaaggcc ccgcaggaa cgcgcgaggt ctccctcacc ctccagggtg ccttcgcacc 900
caacagtgcg tctgaggaac gagctgcagt ttgagcctc ccctgagatg tgcgtagcct 960
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gcaatgttgg gttggggaag acagtgcagc caccagcct ttaccagcag cgtacggcag 1080
acgaaggcag tcgaggtgtg gaggtgatca cgaagataca tgtgtttgac tgtttaattt 1140
gaaagtttac attttttatg ctttgtgttg gtgtgtaatt tttgtactct tgggtgctag 1200
tttttgtcaa atcttttttg gaatattgct taaatgtttt gattttatga tagtgaagct 1260
tgtattcagt gttttgcca ttaattattat atgcttgtaa taaaagcaaa agaaaagctt 1320
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1357

```

```

<210> 25
<211> 1313
<212> DNA
<213> Homo sapiens

```

```

<400> 25
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gatcctcctg ccttacctgg gattacaggc atgcaccttg tgtctcacta atagatttgc 120
tttctaggtc tttcctgtca ggtccaccaa tatttttagat ggatggagca cttgattaga 180
tcaggagtca aaattctatt cctgaatcta ttacttacca gttgtactac tttgaatgaa 240
tggcttaatt ttttagtgac tttgaattgt tccagatata aaatgacagg ataggtctag 300
agagttgcct tagatgaatt aggaaacagt tttgagata gagatgttag tgcagtaggt 360
ttattgggga gtgttctcag gaatgcctgt ggggaagtga aggatgtgga ggaggaagat 420
ggactggaat tcatttgcca gagtcctcag cagatcctac cagcwctaga gctgggatgg 480
cccttcagag ttatcctgat ccacaagggg tcagccccta ggcattcata agtcactttg 540
tccagtcatt ggggttgacc ccaggaaaag gtatggtttg gggttaagagg actcttcagt 600
tgagggtagt tcctaggaag ctagtgaagc atgagttggc atcaggcaac atttcagca 660
atttgggtcaa tgagtcccc ttaaggctgg atctgggcca cggaccatgg cactcactgc 720
catattcaca gcgtcgtttt cagtgtgaaa ttctactgtg ttaaagtatt gtacagtcac 780
tgaaatgaga gtatttttat atttggctac ccatgacatt tattctcttc tgattatatt 840
gtttctctcc tgatctagag ttttagattg ttttgtttgt tttgtttgt tttcctgtac 900
ttttctgtct gttgaggaaa aagagtttta ttcttctagt atgagagttt ctattagtc 960
tccttttttag acagatgaac accctgtgac aattcctttt gtctttttgt ggctgtgaaa 1020
aaaaaagaaa tcataaata gagtcgttac gcaagctctc atgagttaat ttctctctcc 1080
agttttctta ctacttttc cagttttcat ttcttcaac agaaagcttc ttcttctggc 1140
tggacacagc gctcacgcct gtagtcccag cactttggaa ggctgagggg gatgtaatcc 1200
cagcactttg gaaggctgaa ctctgtagtt caggagtccc agaccagcct gggcaacatg 1260
gcgawactcc caactctaca aaaaatacaa aaaaaaaaaa aaaawactcg tag 1313

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<210> 26
<211> 1003

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<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (990)..(990)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1002)..(1002)  
 <223> n equals a,t,g, or c

<400> 26  
 aattcggcac gagttcctct cctcctgttt tgctacattc tcctcagtgg caaaaagttt 60  
 cactctacct ctgacagcat gtatattgca ccagtagcta acaaaaactg gtctagtcaa 120  
 accaaatggg cacaaaagaa ccaggatacc aaaagttaag ctcatacagc tgcaaaccat 180  
 atcacttctt ggtaacaatg cagacctcat aaacctaaag aagagaaaaga aaagaaaact 240  
 ttgtgtactt tccttttttg cttgtcactt atatacaggc tatgtggaa tataatttgt 300  
 aggtataaca cattaagaaa aagttatctt cattggatag aattgaatgg tggtcgctga 360  
 taggaatagg gcgtcctcta gctcttatct ctgtctctta ctcttttctc tttctctttt 420  
 tctctgtcat gagactgtgt gtgacagggc cacctgtctt ttttttttc ttaaattttt 480  
 ttttcttttt atgtgtagggt gcatgtcttg gggatttaaa aatttcaagg ctggtttact 540  
 tatgcaaaagc atgcctacgt ctggaatact tagggaaaga aagcgactcc atgttgctcg 600  
 aattcctcaa gggacagaaa aaaaattgga gactgttgaa atgcagattt gaagtaattt 660  
 ttttaaaata ttattttggg ttctgcgaca ttgtgaaaaattaaagtgtgt tgtgcaatac 720  
 ttaattcaga catgtaccac aagttaatgg tagactaaca ctgggggggtg gggcttaggc 780  
 atcatgcttt tgtcagcata ctcttgagct tttaaagtcta ctatgtctga actgtggttt 840  
 cttgtttatc cttttttcct tagttggact gtaatgtatg gtctgtcaac ctgtgaatct 900  
 ttaaagtatg attcaggtat tgttgatttc tttactgtgt aataaaaaag ttgaaaaaaa 960  
 aaaaaaaaaa acccaagggg gggcccggtn cttttcccc tnt 1003

<210> 27  
 <211> 1963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (335)..(335)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1959)..(1959)  
 <223> n equals a,t,g, or c

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 cagcggccgc gcccttcag ctagctcgct cgctcgctct gcttcctgc tgccggctgc 180  
 gcatggcktt ggcgttgccg gcgctggcgg cggctcgagc gcctgcgcag ccggtaccag 240  
 cagttgcaga atgaagaaga gtctggagaa cctgaacagg ctgcagggtga tgcctctcca 300  
 ccttacagca gcatttctgc agagagcga gcatnathtt gactacaagg atgagtctgg 360  
 gtttccaaag ccccatctt acaatgtagc tacaacactg cccagttatg atgaagcggg 420  
 gaggaccaag gctgaagcta ctatcccttt gggtcctggg agagatgagg attttgtggg 480  
 tcgggatgat tttgatgat ctgaccagct gaggatagga aatgatggga ttttcatgtt 540

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| aacttttttc  | atggcattcc | tctttaactg  | gattggggtt | ttcctgtctt | tttgccctgac | 600  |
| cacttcagct  | gcaggaaggt | atggggccat  | ttcaggattt | ggtctctctc | taattaaatg  | 660  |
| gaccttgatt  | gtcagggttt | ccacctattt  | ccctggatat | tttgatggtc | agtactggct  | 720  |
| ctgggtgggtg | ttccttggtt | taggctttct  | cctggtttct | agaggattta | tcaattatgc  | 780  |
| aaaagttcgg  | aagatgccag | aaactttctc  | aaatctcccc | aggaccagag | ttctctttat  | 840  |
| ttattaaaga  | tgttttctgg | caaaggcctt  | cctgcattta | tgaattctct | ctcaagaagc  | 900  |
| aagagaacac  | ctgcaggaag | tgaatcaaga  | tgcagaacac | agaggaataa | tcaactgctt  | 960  |
| taaaaaaata  | aagtactgtt | gaaaagatca  | tttctctcta | tttgttccta | ggtgtaaaat  | 1020 |
| tttaatatgt  | aatgcagaat | tctgtaatca  | ttgaatcatt | agtggttaat | gtttgaaaaa  | 1080 |
| gctcttgcaa  | tcaagtctgt | gatgtattaa  | taatgcctta | tatattgttt | gtagtcatct  | 1140 |
| taagtagcat  | gagccatgtc | cctgtagtcg  | gtagggggca | gtcttgcttt | attcatcctc  | 1200 |
| catctcaaaa  | tgaacttgga | attaaatatt  | gtaagatatg | tataatgctg | gccattttta  | 1260 |
| aggggttttc  | tcaaaagtta | aacttttggt  | atgactgtgt | ttttgcacat | aatccatatt  | 1320 |
| tgctgttcaa  | gttaatctag | aaattttatt  | aattctgtat | gaacacctg  | aagcaaaaatc | 1380 |
| atagtgcaaa  | aatacattta | aggtgtggtc  | aaaaataagt | ctttaattgg | taaataataa  | 1440 |
| gcattaattt  | tttatagcct | gtattcacaa  | ttctgcggtg | ccttattgta | cctaagggat  | 1500 |
| tctaaaggtg  | ttgtcactgt | ataaaacaga  | aagcactagg | atacaaatga | agcttaatta  | 1560 |
| ctaaaatgta  | attcttgaca | ctctttctat  | aatttagcgt | cttcaccccc | acccccaccc  | 1620 |
| ccacccccct  | tattttcctt | ttgtctcctg  | gtgattaggc | caaagtctgg | gagtaaggag  | 1680 |
| aggattaggt  | acttaggagc | aaagaaagaa  | gtagcttgga | acttttgaga | tgatccctaa  | 1740 |
| catactgtac  | tacttgcttt | tacaatgtgt  | tagcagaaac | catgggggta | taatgtagaa  | 1800 |
| tgaatgtgct  | tctgcccaag | tggttaattca | tcttggtttg | ctatgttaaa | actgtaataa  | 1860 |
| caacagaaca  | ttataaata  | tctcttgtgt  | agcaccttta | aaaaaaaaaa | aaaaaaaaaa  | 1920 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaa        |             | 1963 |

<210> 28  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (748)..(748)  
 <223> n equals a,t,g, or c

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 28    |            |            |            |            |            |     |
| tcggccccgag | aagaaatgtg | acgcactctc | accaagatgc | tgaagctgac | attcatcaat | 60  |
| aagcagctgt  | gcatccacta | ggcatttggt | aaatgttaac | tatctaccg  | aggtgggtgt | 120 |
| ttcttagcct  | cccacctcct | tgctgtggag | cagcttcatg | taccatgatg | catattcaga | 180 |
| tcattcttaa  | tactcatatt | ttgatagaga | ggtttttagg | ttttctttta | aaaccaagtt | 240 |
| attgagataa  | actactttgg | taggatattg | aacttaggaa | taatggtag  | aaactagaca | 300 |
| gctttttttt  | ttttattaca | ctttaagtgc | tgggatatgt | gttcagaaca | tgtaggtttg | 360 |
| ttacataggt  | atacacgtgc | catggtggtt | tgctgcaccc | atcaacctgt | catctgtatt | 420 |
| cggtgtttct  | cctaattcta | tcccwccctt | acccccctgc | ccccaaaaag | gccccagtgt | 480 |
| gtgatggtcc  | cctccctgtg | tccatgtgtt | ctcattgtc  | aactcccact | tatgagttag | 540 |
| aacatgaggt  | gtttggtttt | ttcttcctgt | gttagtttgc | tgagaatgat | ggcttccagc | 600 |
| ttcatccatg  | tcctkcaaaa | ggacatgaac | tcagtccttt | tttatggctg | catagtattt | 660 |
| cgtggtatat  | aagtgccaca | ttttctttat | ycagtctayc | atttgggttg | gttccaaatc | 720 |
| tttgctattg  | tgaatagtgc | cgcaatanac | atacgtgtgc | atgtgtcttt | aaaaaaaaaa | 780 |
| aaaaaaaaaa  | ctcgag     |            |            |            |            | 796 |

<210> 29  
 <211> 1256  
 <212> DNA  
 <213> Homo sapiens

<400> 29

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ctatgtttcca | tcattccttc | ccaaagccac  | cggaagc#t   | ccttctagga  | aaggtggagt  | 60   |
| cggtagtgag  | aagccggagg | tgcccctaca  | gacatacaag  | gagattgttc  | actgctgyga  | 120  |
| ggagcaggtc  | ttaactctgg | ccactgaaca  | gacctatgct  | gtggaggggtg | agacaccccat | 180  |
| caaccgcctg  | tccttgcctg | tctctggccg  | ggttcgtgtg  | agccaggatg  | ggcagtttct  | 240  |
| gcactacatc  | tttccatacc | agttcatgga  | ctctcctgag  | tgggaatcac  | tacagccttc  | 300  |
| tgaggagggg  | gtgttccagg | tcactctgac  | tgctgagacc  | tcatgtagct  | acatttctctg | 360  |
| gccccggaaa  | agtctccatc | ttcttctgac  | caaagagcga  | tacatctcct  | gcctcttctc  | 420  |
| ggctctgctg  | ggatatgaca | tctcggagaa  | g#ctacact   | ctcaatgaca  | agctctttgc  | 480  |
| taagtttggg  | ctgcgctttg | acatccgcct  | tcccagcctc  | taccatgtcc  | tgggtcccac  | 540  |
| tgctgcagat  | gctggaccag | agtccgagaa  | gggtgatgag  | gaagtctgtg  | agccagctgt  | 600  |
| gtcccctcct  | caggccacac | ccacctctct  | ccagcaaaca  | cccccttgtt  | ctacccctcc  | 660  |
| agctaccacc  | aacttttctg | cacctctctac | ccgggccagg  | ttgtccaggc  | cagacagtgg  | 720  |
| catactggct  | tctagaattc | ctctccagag  | ctactctcaa  | gttatatcca  | ggggacaggc  | 780  |
| ccctttggct  | ccaacccaca | cgcttgaact  | ttaaggatca  | ttggactatc  | ttctctgtgg  | 840  |
| ccagcgcagc  | tctcttctgt | gttcacagaa  | tggccactga  | taggcaygcc  | tcttttccca  | 900  |
| cccactggaa  | ggctcacagg | caaggtgaga  | gaggacacag  | aaggtgccaa  | cactgtcgtc  | 960  |
| acagtaagga  | cctgaagtga | ctttgagaaa  | ttcacctcca  | caaaccttcc  | ttcaggagca  | 1020 |
| ggcattggta  | gtgcagaggc | acagattccg  | tcctttacca  | gctgcagaat  | cttggggcag  | 1080 |
| ttacatagcc  | tctgtgagcc | tcacgggtaa  | acagtggggg  | ttatgaaacc  | cacctcacag  | 1140 |
| ggttggtgtg  | aggatccaat | gagttgattt  | aggtaagcac  | ctagcacatg  | ccgtggcacc  | 1200 |
| aagtaagcac  | tcaataaate | actcaactcc  | ttaaaaaaaaa | aaaaaaaaaaa | ctcgag      | 1256 |

<210> 30  
 <211> 752  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| <400> 30    |             |            |             |            |            |     |
| actgaacagt  | ggttaatcct  | gactctgttt | ttgactgaca  | gttaacagtt | acatgaacca | 60  |
| ttcatattac  | agctcttact  | taaatttgac | caagccagga  | tatatctgtt | aggccacatt | 120 |
| catcttagga  | tcagtttttc  | caaagcaggt | ttggggcaaaa | ttaatccaca | ggactgaaag | 180 |
| gtatacatct  | gtgagttttg  | ttctcacttc | cacctctaata | ttgaagaaca | ctttaattga | 240 |
| cacagaatac  | atttcacata  | tttaacctct | acaataagtt  | ctgacacatt | ttccatgaaa | 300 |
| caaaccatcg  | ctatattcaa  | gataatgaac | ctatctatca  | tactcccaaa | ttccttctkg | 360 |
| catcttttga  | atttctcact  | cttctctctc | cctctccccg  | tcccatccca | accactgatc | 420 |
| tgctcaggca  | actaccaatc  | ttctttctgt | cactatagat  | taatttgcac | ttttaagaa  | 480 |
| atttaccata  | atggaaccat  | acatcatcta | tgctttgtag  | tatgactcct | gtcactcagt | 540 |
| acaattatatt | tgagattcat  | ttatgttawt | gtatgtatca  | atagttcatc | cctttattg  | 600 |
| gtaagtaaca  | ttttttttgta | taggtatacc | atgatttgtt  | gatgaacaaa | tttacctgtt | 660 |
| gatgaacatt  | tacgttggtta | ccaagatttt | tgctattgaa  | aataaagttt | ttatgaatat | 720 |
| ttatatatat  | aaaaaaaaaa  | aaaaaaactc | ga          |            |            | 752 |

<210> 31  
 <211> 2243  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (929)..(929)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 31   |            |             |            |            |            |     |
| tgcttccctt | cctgcagatt | gtggacagta  | gttcctcagc | ctgcaccctg | gattccttct | 60  |
| tccccttcc  | agctccatgg | gactcgcccc  | aagactgtgg | cttcaaggac | cacagcccc  | 120 |
| ttactcttca | agccctgact | gtggagttgg  | tagatgcctc | tgatcctcag | tattctctct | 180 |
| ggcaatgttc | cacggcttct | ccttccctggg | agctggctcc | ataacttgat | tttccccaaa | 240 |

|            |              |             |             |             |             |      |
|------------|--------------|-------------|-------------|-------------|-------------|------|
| cgtgttgcaa | tccctgctgc   | cccttagcca  | cccagggtct  | tgtgtgggta  | tgagtgtaga  | 300  |
| ggatgggggt | atgccaggcc   | tgggccgtcc  | caggcaggcc  | cgctggaccc  | tgatgctact  | 360  |
| cctatccact | gccatgtacg   | gtgcccatgc  | cccattgctg  | gcactgtgcc  | atgtggacgg  | 420  |
| ccgagtcccc | ttycgccct    | cctcagccgt  | gctgctgact  | gagctgacca  | agctactgtt  | 480  |
| atgcgccctt | tcccttctgg   | taggctggca  | agcatggccc  | cagggggccc  | caccctggcg  | 540  |
| ccaggctgct | cccttcgcac   | tatcagccct  | gctctatggc  | gctaacaaca  | acctggtgat  | 600  |
| ctatcttcag | cgttacatgg   | accccagcac  | ctaccagggtg | ctgagtaatc  | tcaagattgg  | 660  |
| aagcacagct | gtgctctact   | gcctctgcct  | ccggcaccgc  | ctctctgtgc  | gtcaggggtt  | 720  |
| agcgctgctg | ctgctgatgg   | ctgcgggagc  | ctgctatgca  | gcagggggcc  | ttcaagttcc  | 780  |
| cgggaacacc | cttcccagtc   | cccctccagc  | agctgctgcc  | agccccatgc  | ccctgcatat  | 840  |
| cactccgcta | ggcctgctgc   | tcctcattct  | gtactgcctc  | atctcaggct  | tgctcgtcagt | 900  |
| gtacacagag | ctgctcatga   | agcgacagng  | gctgcccctg  | gacttcaga   | acctcttctt  | 960  |
| ctacactttt | ggtgtgcttc   | tgaatctagg  | tctgcatgct  | ggcggcggct  | ctggcccagg  | 1020 |
| scctctggaa | ggtttctcag   | gatgggcagc  | actcgtggtg  | ctgagccagg  | cactaaatgg  | 1080 |
| actgctcatg | tctgtgtgca   | tgaagcatgg  | cagcagcatc  | acacgcctct  | ttgtggtgtc  | 1140 |
| ctgctcgtcg | gtgggtcaacg  | ccgtgctctc  | agcagtcctg  | ctacggctgc  | agctcacagc  | 1200 |
| cgccttcttc | ctggccacat   | tgctcattgg  | cctggccatg  | cgcctgtact  | atggcagccg  | 1260 |
| ctagtccctg | acaacttcca   | ccctgattcc  | ggaccctgta  | gattgggcgc  | caccaccaga  | 1320 |
| tccccctccc | aggccttctt   | ccctctccca  | tcagcagccc  | tgtaacaagt  | gccttgtgag  | 1380 |
| aaaagctgga | gaagtgaggg   | cagccagggtt | attctctgga  | ggttggtgga  | tgaaggggta  | 1440 |
| cccctaggag | atgtgaagtg   | tgggtttggt  | taaggaaatg  | cttaccatcc  | cccaccccca  | 1500 |
| accaagtctt | tccagactaa   | agaattaagg  | taacatcaat  | acctaggcct  | gagaaataac  | 1560 |
| cccctccttg | ttgggcagct   | ccctgctttg  | tcctgcatga  | acagagttga  | tgaagtgagg  | 1620 |
| gtgtgggcaa | caagtggctt   | tccttgccct  | ctttagtcac  | ccagcagagc  | cactggagct  | 1680 |
| ggctagtcca | gcccagccat   | ggtgcatgac  | tcttccataa  | gggatccctc  | cccttccact  | 1740 |
| ttcatgcaag | aaggcccagt   | tgccacagat  | tatacaacca  | ttacccaaaac | cactctgaca  | 1800 |
| gtctcctcca | gttccagcaa   | tgccatagaga | catgtccctt  | gccctctcca  | cagtgtgctt  | 1860 |
| ccccacacct | agcctttgtt   | ctggaaaaccc | cagagagggc  | tgggcttgac  | tcctctcagg  | 1920 |
| gaatgtagcc | cctgggccct   | ggcttaagcc  | gacactcctg  | acctctctgt  | tcacccctgag | 1980 |
| ggctgtcttg | aagcccgtta   | cccactctga  | ggctcctagg  | aggtaccatg  | cttcccactc  | 2040 |
| tggggcctgc | cctgccttag   | cagtctccca  | gctcccaaca  | gcctggggaa  | gctctgcaca  | 2100 |
| gagtgcacct | agaccaggta   | caggaaaacct | gtagctcaat  | cagtgtctct  | wtaactgcat  | 2160 |
| aagcaataag | atcttaataa   | agtcctctag  | gctgtagggt  | ggttcctaca  | accacagcca  | 2220 |
| aaaaaaaaaa | aaaaaaaaactc | gag         |             |             |             | 2243 |

<210> 32  
 <211> 1624  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| <400> 32    |             |            |             |            |            |     |
| ggcacgaggt  | cgccgcccgcg | gccgcctgga | attgtgggag  | ttgtgtctgc | cactcggtcg | 60  |
| ccggaggcga  | aggtccctga  | ctatggctcc | ccagagcctg  | ccttcatcta | ggatggctcc | 120 |
| tctgggcatg  | ctgcttgggc  | tgctgatggc | cgcctgcttc  | accttctgcc | tcagtcatca | 180 |
| gaacctgaag  | gagtttgccc  | tgaccaaccc | agagaagagc  | agcaccaaag | aaacrgagag | 240 |
| aaaagaaaacc | aaagccgagg  | aggagdgga  | tgccgaagtc  | ctggagggtg | tccacccgac | 300 |
| gcatgagtgg  | caggcccttc  | agccagggca | ggctgtccct  | gcaggatccc | acgtacggct | 360 |
| gaatcttcag  | actggggaaa  | gagaggcaaa | actccaatat  | gaggacaagt | tccgaataaa | 420 |
| tttgaaaaggc | aaaaggctgg  | atatcaacac | caacacctac  | acatctcagg | atctcagag  | 480 |
| tgcaactggca | aaattcaagg  | agggggcaga | gatggagagt  | tcaaaggaag | acaaggcaag | 540 |
| gcaggctgag  | gtaaagcggc  | tcttccgccc | cattgaggaa  | ctgaagaaag | actttgatga | 600 |
| gctgaatgtt  | gtcattgaga  | ctgacatgca | gatcatggta  | cggctgatca | acaagttcaa | 660 |
| tagttccagc  | tccagtttgg  | aagagaagat | tgtctgcgctc | tttgatcttg | aatattatgt | 720 |
| ccatcagatg  | gacaatgcgc  | aggacctgct | ttccttttgg  | ggtcttcaag | tggtgatcaa | 780 |
| tgggctgaac  | agcacagagc  | ccctcgtgaa | ggagtatgct  | gcgtttgtgc | tgggcgctgc | 840 |
| cttttccagc  | aaccccaagg  | tccaggtgga | ggccatcgaa  | gggggagccc | gcagaagct  | 900 |
| gctgggtcatc | ctggccacgg  | agcagccgct | cactgcaaag  | aagaaggctc | tgtttgcact | 960 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| gtgctccctg | ctgcgccact  | tcccctatgc | ccagcggcag | ttcctgaagc | tcggggggct | 1020 |
| gcaggtcctg | aggaccctgg  | tgcaggagaa | gggcacggag | gtgctcgccg | tgcgctgggt | 1080 |
| cacactgctc | tacgacctgg  | tcacggagaa | gatgttcgcc | gaggaggagg | ctgagctgac | 1140 |
| ccaggagatg | tccccagaga  | agctgcagca | gtatcgccag | gtacacctcc | tgccaggcct | 1200 |
| gtgggaacag | ggctgggtgcg | agatcacggc | ccacctcctg | gcgctgcccg | agcatgatgc | 1260 |
| ccgtgagaag | gtgctgcaga  | cactgggctg | cctcctgacc | acctgcggg  | accgctaccg | 1320 |
| tcaggacccc | cagctcggca  | ggacactggc | cagcctgcag | gctgagtacc | aggtgctggc | 1380 |
| cagcctggag | ctgcaggatg  | gtgaggacga | gggctacttc | caggagctgc | tgggctctgt | 1440 |
| caacagcttg | ctgaaggagc  | tgagatgagg | ccccacacca | ggactggact | gggatgccgc | 1500 |
| tagtgaggct | gaggggtgcc  | agcgtgggtg | ggcttctcag | gcaggaggac | atcttggcag | 1560 |
| tgctggcttg | gccattaaat  | ggaaacctga | aggccaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1620 |
| aaaa       |             |            |            |            |            | 1624 |

<210> 33  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 33    |            |            |            |            |            |     |
| gctgcatgct  | gggcgggaac | taggaagcct | ccccaacctc | tggccccgtg | gagccctcag | 60  |
| cctcagctgc  | agtggaggca | cctcgggctc | tggggcaacc | aagtgtgaca | ggtggctgtg | 120 |
| cacgggcaga  | ggtcctgtgg | aagatttcat | gtgacgggca | gaagaggagg | aggaggcagg | 180 |
| ggaggaagca  | catccatgaa | cagggtgtgc | tgggggcagc | ctgggtggtc | gtgaaatagg | 240 |
| actcagtggc  | cttgagtcct | catttaggcc | ctgatgttct | ttagcctgcc | tggcctttgg | 300 |
| caaatcgcca  | gcttcacgca | caacctcatt | tttcaccttt | gggtgtgggg | gtcagagtcg | 360 |
| ggagagcacc  | tgcaaagcca | caatgatcca | gacacacggc | aggtgggca  | cattcccatc | 420 |
| aggctcctcg  | gggagagcag | cgcttctgtg | cccgggagca | gcgaaggcca | cacaggagga | 480 |
| cccgcacctc  | ctcgtgtcgg | tggctccgct | ggtataatca | ggactcacgt | ggtgttcctc | 540 |
| gtgtcgtggc  | ccttattgca | gagggagcag | cacaggcttt | cctggaagct | cccctcggtc | 600 |
| atgtgggggtg | actccagaga | rocccacctt | gcgagactgg | accagtccaa | gtggcctkga | 660 |
| gccacarcgg  | cctkgcagta | cctkgggagg | gggtgatgac | aggtgcacac | ggaggcccat | 720 |
| gtggtctgtc  | tggagaatgc | cggagatgtg | aaatatgtaa | tcctgagtgt | ggcttctaga | 780 |
| aggaagggttc | gcaaagctga | atatccactc | gtgctgtcc  | cttctcacag | gagattcctg | 840 |
| tcaacgtccg  | attctgcctc | gaaggcagga | ggagtaagg  |            |            | 879 |

<210> 34  
 <211> 2761  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1006)..(1006)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1376)..(1376)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2211)..(2211)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| <400> 34   |            |            |            |            |            |    |
| gattaaaatt | tatttaataa | taaggggagg | aataaaataa | ctatgcattt | ttttgttgaa | 60 |

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agcacaaattg tgtctgatac tttatttaca ctatctaatt taacctttca taaatgcccc 120
gaatatgaga atatcatcca agattttaa atcaattacc aaaattttaca gctatcaaat 180
ggaagactca ggtttatgct atgccacgtt ttctcttctt tcctttttgt gatggtgttc 240
caaattgtgg agaaagaaaa cattctatct gtgattgctt ctgctagtta ctctgcaaa 300
acaaactact caaattcagt ggtgtgatgc aataaccatt tgtcatcctc atatattctg 360
gggtcagggg tcaaaaatgc aaagtggggg gacatctcgt ggtctacagt aattggggcc 420
tctgagaatt cctagctatc taggaatgaa ttaaactgtg gacaatgaag ttttctgaaa 480
gcttctttac gtttggctc tgcatkggta tgacttaaag gctgcgctca aaataatctc 540
ttaaccagag kgtctgaata ttgcttcttc atgtaacttg agcttcctca caacatggaa 600
tcatacaggt agcttgccct agtggtgcag ttaatgggtc aatgtattgc cttaataaat 660
cttgccctcag aagtcacata gaattacttt aatgctgagt tggtttaagcaatcacagcc 720
tgtctgactt caggggggag aaacatgatg tctacccttt gatgtgagga cattcaaagt 780
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aattttgtaa aaagamctaa gataattgtc cactaatcac tcattaaatc tcctccttag 1200
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aatattgttt ggtttttatt atattttgaa aatttaagga ttcttgaata ttcttaagta 1620
aattgcaatt taatgcaatt gtagttatac tcagtaatat agttacmctt gattraagcc 1680
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ttgtctaagc aacaggagtt tagtttgcat gttttttatt tttgagagta catcaacgta 1860
atgaaatgta tttaaaattg taccatata tacataatga tatatatata tatttatgtt 1920
ttmcagcagt gtttttcctt ggagatgatt caacaaaatt gcaaagrggc acttctaatt 1980
aattattggg aagtmcaagc taggaytatt gtttttctga acgtttgtgm cttgtagtga 2040
tctcttmcag acgtgggggt ctggmcactt ggaccttaaa ttggaaatgg ttaaaaaatt 2100
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atgtgcatca taaattaata acaaaaaggg tagatatatt attgagctat ggttcctgaa 2340
tcaaaaccac aatctggagg tttccgttc ttcataaaag aagttaaaac tcagtgcag 2400
ttgctagacg tcatttaatg atcttcattc ttctctgtcc agagcatgtg tgaagtatta 2460
ggccagaaa agagagataa ataacttttt cctgctgggc acagaagctg 2520
gctctttaaa gtttgagtaa ctgtcacttt gtcaggcatg gttataaagt ttccagaa 2580
aactagtaag gagcattaat ataagatttc ccagatgcc aattttgttt tctgctatat 2640
ctcactcctc tttgaatttc ctcatacaat tttccattta aaatggagaa ttcagctttc 2700
ttgatcctat aataaacaca tttgtcttta tttgatacaa aaaaaaaaaa aaagkgcgcc 2760
c

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<210> 35
<211> 755
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```



<220>  
 <221> misc\_feature  
 <222> (733)..(734)  
 <223> n equals a,t,g, or c

<400> 35  
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 gaattcccgg gtcgacccac gcgtccgaac tcctgaaaca gtgaggacat ctacagacc 120  
 agacaggagc tggggctctg catctcacag cgggtgcctgt cagacaggaa gaagtcccgc 180  
 agaagtggcg tgtgggtcag ggctgcacg atgcagttca tgaagcatgt gttcccaagg 240  
 ttgatcagcc cacgcagacc tatggtgcag ttcgagggtga tctttctcct tttcgggttg 300  
 tgcttcagca gttcaagctc ccgtttggtt gggtcccaag ttgaaaactt ctctccaacg 360  
 ccttgcatth tccaagctth tcgctgctcc tccttggcga ttatttccat gttttgtca 420  
 tagatgtagt cctggcacag aaaacagtag atgcctccgt acatcagatc aatggccagg 480  
 ttgtgccgct tcgccttcgc atgctcgtga atatgcttct ttgtgaaaca gccgaagaag 540  
 acacagtaga ggcaggaatg cagcctgttg aggtggacgc cacagacatg gcagatacag 600  
 gacttggcct tgcgcttgcg ggctcagcc gtgccgctcc acacgaagca ctggtagatg 660  
 gccgcaggt tctgcttcca gttgtccacc ttgaagctgc ccagggtgcga gcagcccggc 720  
 ggcgtaccg ccnntcggc gtccatggcc tcgcc 755

<210> 36  
 <211> 2089  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (774)..(774)  
 <223> n equals a,t,g, or c

<400> 36  
 ggcacgagcc cggaggccta cgtcggaccc ggaggccctg aatgccccat gcgcacccca 60  
 cagctcgcgc tcctgcaagt gttctttctg gtgttccccg atggcgtccg gcctcagccc 120  
 tcttctctcc catcaggggc agtgcccacg tctttggagc tgcagcgagg gacggatggc 180  
 ggaaccctcc agtccccttc agaggcgact gcaactcgcc cggccgtgcc tggactccct 240  
 acagtggctc ctactctcgt gactccctcg gccctggga ataggactgt ggacctcttc 300  
 ccagtcttac cgatctgtgt ctgtgacttg actcctggag cctgcgtat aaattgctgc 360  
 tgcgacaggg actgctatct tctccatccg aggacagttt tctccttctg ccttcaggc 420  
 agcgtaaggt cttcaagctg ggtttggtga gacaactctg ttatcttcag gagtaattcc 480  
 ccgtttcctt caagagtttt catggattct aatggaatca ggcagttttg tgtccatgtg 540  
 aacaactcaa acttaaaacta tttccagaag cttcaaaaagg tcaatgcaac caacttcag 600  
 gccctggctg cagagtttg aggcgaatca ttcacttcaa cattccaaac wcaatcacca 660  
 ccatcttttt acagggtctg ggaccccat cttacttact tccccaaagt gtctgtaata 720  
 agcttgctga gacaacctgc aggagttgga gctgggggactctgtgctga aagnaactct 780  
 gcaggtttcc tagagagtaa aagtacaact tgcactcgtt ttttcaagaa cctggctagt 840  
 agctgtacct tggattcagc cctcaatgct gcctcttact ataacttcac agtcttaag 900  
 gttccaagaa gcatgactga tccacagaat atggagtcc aggttcctgt aatacttacc 960  
 tcacaggcta atgctcctct gttggctgga aacacttgtc agaattgtag ttctcaggtc 1020  
 acctatgaga tagagacca tgggactttt ggaatccaga aagtttctgt cagtttggga 1080  
 caaaccaacc tgactgttga gccaggcgt tccttacagc aacacttcat ccttcgcttc 1140  
 agggcttttc aacagagcac agctgcttct ctcaagctc ctagaagtgg gaatcctggc 1200  
 tatatagttg ggaagccact cttggctctg actgatgata taagttactc aatgaccctc 1260  
 ttacagagcc agggtaattg aagttgctct gttaaaagac atgaagtgc gtttggagt 1320  
 aatgaatat ctggtgcaa gctcaggtt aagaaggcag actgcagcca cttgcagcag 1380  
 gagatttatc agactcttca tggaaagccc agaccagagt atgttgccat ctttggtaat 1440  
 gctgacccag ccagaaagg aggggtggacc aggatcctca acaggcactg cagcatttca 1500  
 gctataaact gtacttctg ctgtctcata ccagtttccc tggagatcca ggtattgtg 1560

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| gcatatgtag | gtctcctgtc | caaccgcgcaa | gctcatgtat | caggagttcg | attcctatac  | 1620 |
| cagtgccagt | ctatacagga | ttctcagcaa  | gttacagaag | tatctttgac | aactcttggtg | 1680 |
| aactttgtgg | acattaccca | gaagccacag  | cctccaaggg | gccaaaccaa | aatggactgg  | 1740 |
| aaatggccat | tcgacttctt | tcccttcaaa  | gtggcattca | gcagaggagt | attctctcaa  | 1800 |
| aaatgctcag | tctctcccat | ccttatcctg  | tgccctttac | tacttgaggt | tctcaacctt  | 1860 |
| gagactatgt | gaagaaaaga | aaataatcag  | atttcagttt | tccctatgag | aaactctgag  | 1920 |
| gcagccactt | atcttggtta | aatagaacct  | cacctgctca | tgaccagaga | gcatttagga  | 1980 |
| taatagagga | cctaactgaa | ggaacccctg  | tatatgaaag | gagttatttt | agaaaagcaa  | 2040 |
| taaaaatatt | ttattcatma | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa |             | 2089 |

<210> 37  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 37   |            |            |            |            |            |     |
| cttttagaag | gtacgcctgc | aggtaccggt | ccggaattcc | cgggtcgacc | cacgcgtccg | 60  |
| ggaaatgaac | taccatttat | aacttctggt | tttttattga | gaaaatgatt | cacgaattcc | 120 |
| aaatcagatt | gccaggaaga | aataggacgt | gacggtagct | ggccctgtga | ttctcccagc | 180 |
| ccttgcagtc | cgctaggtga | gaggaaaagc | tctttacttc | cgccctgggc | agggacttct | 240 |
| gggttatggg | agaaaccaga | gatgggaatg | agggaaatat | gaactacagc | agaagccctc | 300 |
| gggcagctgt | gatggagccc | ctgacattac | tcttcttgca | tctgtcctgc | cttctttccc | 360 |
| tctgcgaggc | agtggggtgg | gattcagagt | gcttagtctg | ctcactggga | gaagaagagt | 420 |
| tccctgcgcg | gcaagccctg | ctgtgtggct | gtcgtttaca | tttgggaggt | gtcctgattg | 480 |
| tctgtacgtt | gggactgcc  | tgtatttgga | agatttaaaa | acctagcatc | ctgttctcac | 540 |
| cctctaagct | gcattgagaa | atgactcgtc | tctgtatttg | tattaagcct | taacactttt | 600 |
| cttaagtgcg | ttcgtgcca  | acatttttta | gagctgtacc | aaaacaaaaa | gcctgtactc | 660 |
| acatcacaa  | gtcattttga | taggagcgtt | ttgttatttt | tacaaggcag | aatgggggtg | 720 |
| aacagttgaa | ttaaacttag | caatcacgtg | ctcaaaaaaa | aaaaaaaaaa | aaaaagggcg | 780 |
| gccgc      |            |            |            |            |            | 785 |

<210> 38  
 <211> 1458  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| <400> 38    |            |             |            |            |             |      |
| ccacgcgtcc  | gggaattttc | aaaagatcca  | aacagagact | tccctgcatt | tctgcctttc  | 60   |
| caacagaagc  | ggtgatcgtc | taagtatgag  | cctgtggcct | cctttgtgca | tttgagcatg  | 120  |
| ctgtaattaa  | gatgagatca | gtttctttaga | aaaagctttc | ctgaatccct | ctgacgttgc  | 180  |
| ctgggatctt  | tctgttgatt | gtctttttct  | ggagattggg | acagagcatc | tgtgggtccag | 240  |
| ggaagttagt  | cctctggcct | caattctggt  | gtggatgtgc | agtgataagc | gggcattgctg | 300  |
| tgccctcggg  | gatgcctagt | tcgtggcttc  | ctggctgttt | tgtccttctg | tgtctttag   | 360  |
| ctgtagggtg  | ccagctcagg | gagtgggggtg | ttggcggcgt | ttccgcgggt | ggctccttg   | 420  |
| ctttgcccga  | cctccagggt | ctgggcatga  | gaggccgtgg | cctcatttct | ggtggataac  | 480  |
| cttttttagtt | taatagcatc | tttaattaga  | tcacagcatt | gaattcaaaa | tttcttctgc  | 540  |
| aaagaaagtt  | gtggggcata | agacaccggg  | aatgaggagg | gaggaagaca | gttgtgtttt  | 600  |
| ctcttttaaac | cttgagctct | agccgatgca  | tttgtcagga | aatacagcac | tttgtcttaa  | 660  |
| gaaaacaagg  | aaggaggccg | ggcgagtggt  | ctcacgcctg | taatcccagc | actttgggag  | 720  |
| gccgaggcgg  | gcggtacacc | tgagggtggg  | agtatgagac | caccctgact | aacatggaga  | 780  |
| gaccctgtct  | ctactaaaag | tacagaatta  | gccgggctgt | gttgccgtg  | cccataatcc  | 840  |
| cagctactga  | ggtaggagaa | ggtaggagaa  | tcacttgaac | ctcagcggcg | gaggttgacg  | 900  |
| tgagctcgaga | tcgcgccagt | gcactccagc  | ctgggcaaga | agagcgaaac | tgggtctcaa  | 960  |
| gttaaaaaaa  | gaaagcaagg | aaagagtaat  | ttacaacgaa | ggaaaaaaac | ccacagcaca  | 1020 |
| cccttcgcgg  | ctgtcagcgc | tctcctgatg  | tcacagtggc | tgctgtcctt | tgggggtggg  | 1080 |
| gaggtgtggg  | gagcccagcc | cctggccctg  | cctcccgcgc | cccgtctccc | ttctctctct  | 1140 |
| tactcggtta  | agccatagcg | aggcctccgc  | tcgtttcaga | tatgaatttg | ttttatagat  | 1200 |

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| tataaatatg  | catatacagt | gtatgtataa  | agcagaatgc | cgccctttcc  | tggttatttt  | 1260 |
| ttgtaccata  | ttgtaaatta | tattattttat | tctttaccaa | ttttgggaat  | aaaagggtgtt | 1320 |
| ttggttatttt | aatataataa | gagctgttaa  | acttctgttt | aaattttccag | ttcaacttgt  | 1380 |
| aaatgttttt  | attgtgcata | aatacatact  | aatgttgatc | taaaaaaaaa  | aaaaaaaaaa  | 1440 |
| aaaaaaaaaa  | aaaaaaaaa  |             |            |             |             | 1458 |

<210> 39  
 <211> 2657  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (179)..(179)  
 <223> n equals a,t,g, or c

|            |             |             |                      |             |             |      |
|------------|-------------|-------------|----------------------|-------------|-------------|------|
| <400> 39   |             |             |                      |             |             |      |
| aatatctcat | gaatgagttt  | gaagtttgct  | tggtttttgaaatgaatggg | actttgtctt  | 60          |      |
| tattactaat | tcaccaaatt  | tgttgagcgc  | aaaagcaatt           | aatgtagttt  | aagtatttag  | 120  |
| tatgtacagt | tctctgtgtt  | aacagctgag  | aagtaagcaa           | ccttttctga  | ctgcataatg  | 180  |
| gtgtattcct | cctttgagtc  | cccataatat  | tttataaatt           | gtaatgcccc  | atcttgtact  | 240  |
| acagttgtct | tattcgtatt  | gtttataaac  | tttgagggtt           | aggactgggt  | cttactcatc  | 300  |
| tttatgtgcc | ttccttatgc  | ttcaaagaat  | ttaccatcta           | atggaagaga  | acatttgcaa  | 360  |
| gttggtccca | taccaagctc  | cttcacacata | ctctactcat           | ctgaactttg  | aatgcagaat  | 420  |
| ctttaaattg | caacccccaca | tactaagggtc | aagaaagaac           | ttaatgggaa  | ttaatctcca  | 480  |
| cccattagct | ttaccctgac  | atcaggattg  | ccaaatccaa           | tggaactctg  | tctattctta  | 540  |
| cgtgacttct | gctggaaaat  | gcgaatgttg  | accatcctgc           | cacttggaac  | tctcttccca  | 600  |
| ctcctcacat | tgcttttgct  | accactggaa  | gttccttctg           | tttcttggg   | agtacctttt  | 660  |
| gctgtctggg | acttgtagat  | aatggtgttt  | cctagggtct           | cctccagggc  | cctctgcctc  | 720  |
| actaactgga | tatacttttc  | ctgagcaaat  | cccaggaaac           | ttgcgtcaga  | ccgtgacttc  | 780  |
| aaatacaggt | tgataaatgc  | taaactgtct  | ccaaaccaga           | cttcactcta  | gcctccacac  | 840  |
| ccagacaccc | aactgctatg  | gatcaacttt  | ttagaatatc           | ctcacttcaa  | actgacctta  | 900  |
| cctaaaataa | tgactttttc  | ccccataaat  | tgccccgtct           | atattcctta  | tttctgaatg  | 960  |
| gtacctccta | gctatataga  | ttatctgagg  | agcttactga           | aatgctgatt  | ctgaagataa  | 1020 |
| ggggcatggc | tttaagattc  | tgtatttctg  | gcgagtaccc           | aactgggtgt  | catgctgtct  | 1080 |
| attgagaacc | acttctgaat  | atagcaaggc  | tgtaaattat           | ccactacgtg  | ccctcgtaat  | 1140 |
| tgtcttagtt | caagcccaga  | ttattgtagt  | agacttagta           | tttctttgcc  | ttagttagtc  | 1200 |
| tgtgaccctt | ccaatatcta  | ttccacactg  | ttgcctaagt           | ggccttagta  | aaattcaagt  | 1260 |
| ctggttattt | tattcccttg  | cttggaattt  | ctcaatgtag           | aatgaaactc  | attcagcatt  | 1320 |
| aacacatagg | cccttcttga  | tctgacatcg  | tgtttctcta           | gttagactaa  | agaatcccca  | 1380 |
| ctatgaagtt | gtttcatccg  | taagtacctt  | tgaaccacga           | agcccccttt  | ctcatatgtt  | 1440 |
| tctcattcct | gtttgccctt  | cagagttcag  | cttttagttg           | taaaacattc  | agaattccct  | 1500 |
| ctgacttaga | tccccacta   | ctgtttttct  | gtgagaagca           | gctatgcata  | attcctcttc  | 1560 |
| aacacagtag | ttcttgaaat  | tttgcaaggcc | tctcctggaa           | aggaggaaat  | gacttctctg  | 1620 |
| actttgtatg | atgcttattt  | gtggatgaat  | gggcaaggga           | aaaaatgaag  | gaacaagtga  | 1680 |
| atgaacagta | tgaggatag   | agaaaaggta  | taaattgggt           | atagttgaga  | aaaggattca  | 1740 |
| aattgatctt | tggttcgaga  | gacaatttca  | tctttctgat           | gaattttaaag | tgtagtcttt  | 1800 |
| gaaccagctg | ggcttaatta  | tgtaaagtgt  | tgagcctgag           | ataagcacac  | aatcacaaaa  | 1860 |
| cctacccaaa | caagtttttt  | gtttcacttc  | atctcttata           | aaacaatgt   | ctaaagtaag  | 1920 |
| tgatagggat | gctcatcatt  | ctgctaccta  | ttatcacaa            | gaaaacaatc  | ataaatagta  | 1980 |
| cacaggaaag | gtgagaaata  | gcggatagtt  | cttatttcat           | agtactgtat  | atggaaataa  | 2040 |
| accaaaattt | ctcatagaga  | tactatttta  | ttacctcaaa           | aatatataaa  | aatgaaaacg  | 2100 |
| ttatgaaaat | attttaaaa   | gggattttaa  | aataattgag           | aacatcacag  | caatttagaa  | 2160 |
| tactaaagag | catagcttta  | aaatgatagt  | gctgagaact           | ccccacctct  | acccccaccac | 2220 |
| ctgtaggctt | ctttgacaac  | ttacaaatgt  | tctctagttt           | gtatctagaa  | tcacttatat  | 2280 |
| ctttcaaata | aaccaacttt  | gtgaamaaaa  | aaaaaaaaaa           | aaagggcgg   | ccgctctaga  | 2340 |
| ggatccaagc | ttacgtacgc  | gtgcatgcga  | cgctcatagct          | cttctatagt  | gtcacctaaa  | 2400 |

|            |             |             |            |            |            |      |
|------------|-------------|-------------|------------|------------|------------|------|
| ttcaattcac | tggccgctcgt | tttacaacgt  | cgtgactggg | aaaaccctgg | cgttacccaa | 2460 |
| cttaatcgcc | ttgcagcaca  | tccccctttc  | gccagctggc | gtaatagcga | agaggcccg  | 2520 |
| accgatcgcc | cttcccaaca  | gttgcgcgagc | ctgaatggcg | aatgggacgc | gccctgtagc | 2580 |
| ggcgatttaa | gcgcggcgk   | tgtggtggtt  | acscgcagcg | tgaccgttac | acttgccagt | 2640 |
| ggccctagcg | gcccgt      |             |            |            |            | 2657 |

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<210> 40
<211> 1503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (18)..(18)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (41)..(41)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1501)..(1501)
<223> n equals a,t,g, or c

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|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| <400> 40    |            |             |             |             |            |      |
| gtggangccg  | ctcctganaa | ctagtgggtc  | ccccgggctg  | ncaggattcg  | gcacgagaat | 60   |
| gaatggcaaa  | gaaatagaag | gggaagaaat  | tgaatatagtc | ttagccaagc  | caccagacaa | 120  |
| gaaaaggaaa  | gagcgccaag | ctgctagaca  | ggctccaga   | agcactgcgt  | atgaagatta | 180  |
| ttactaccac  | cctcctcctc | gcatgccacc  | tccaattaga  | ggtcggggtc  | gtggtggggg | 240  |
| gagagtgga   | tatggctacc | ctccagatta  | ctacggctat  | gaagattact  | atgatgatta | 300  |
| ctatggttat  | gattatcacg | actatcgtgg  | aggctatgaa  | gatccctact  | acggctatga | 360  |
| tgtggcttat  | gcagtaagag | gaagaggagg  | aggaagggga  | gggcgagggtg | ctccaccacc | 420  |
| accaaggggg  | aggggagcac | cacctccaag  | aggtagagct  | ggctattcac  | agaggggggc | 480  |
| acctttggga  | ccaccaagag | gctctagggg  | tggcagaggg  | ggctctgctc  | aacagcagag | 540  |
| aggccgtggt  | tcccgtggat | ctcgggggaa  | tcgtgggggc  | aatgtaggag  | gcaagagaaa | 600  |
| ggcagatggg  | tacaaccagc | ctgattccaa  | gcgtcgtcag  | ccaacaacca  | acagaactgg | 660  |
| ggttcccaac  | ccatcgctca | gcagccgctt  | cagcaagggtg | gtgactattc  | tggtaactat | 720  |
| ggttacaata  | atgacaacca | ggaattttat  | caggatactt  | atgggcaaca  | gtggaagtga | 780  |
| acaagtaagg  | gcttgaaaat | gatactggca  | agatacgatt  | ggctctagat  | ctacattcct | 840  |
| caaaaaaaaa  | aattggctta | actgtttcat  | ctttaagtag  | cattttgctg  | ccatttgtat | 900  |
| tgggctgaag  | aaatcactat | tgtgtatata  | ctcaagtctt  | tttatttttc  | ctcttttcat | 960  |
| aaatgctcct  | ggacattatt | gggcttgacg  | agttccctta  | ttctggggat  | tacaatgctt | 1020 |
| ttatcgtttc  | aggcttcatt | ttagcttcaa  | aacaagctgg  | gcacactgtt  | aatcatgat  | 1080 |
| tttgcagaac  | ctttggtttt | ggacagtttc  | atttttttgg  | atttgggata  | gattacatag | 1140 |
| gagtatggag  | tatgctgtaa | ataaaaaatac | aagctagtgc  | tttgtcttag  | tagtttaag  | 1200 |
| aaattaaagc  | aaacaaattt | aagttttctt  | gtattgaaaa  | taacctatga  | ttgtatgttt | 1260 |
| tgcatctcta  | gaagtagggt | aactgtgttt  | ttaaattggt  | ataacttcac  | acctttttga | 1320 |
| aatctgccct  | acaaaatttg | tttggtctaa  | acgtcaaaag  | ccgtgacaat  | ttgttctttg | 1380 |
| atgtgattgt  | atttccaatt | tcttgttcat  | gtaagatttc  | aataaaaacta | aaaaatctat | 1440 |
| tcaaaaacaww | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | 1500 |

naa 1503

<210> 41  
<211> 1280  
<212> DNA  
<213> Homo sapiens

<400> 41  
ggcacgagta taaaggcccc tccacccagc ctctagccca tttctttctc tggcttttgc 60  
aggattcctc attctccctg aggtcttaac tatcacatca tgcacgttct gccactgctg 120  
ttatcactgc tgctgctgct gctgctgctg tcagctagct ttgtgacttt cagcaccccc 180  
acttccagca gaaattctag ctgccctgat tgtgagagtc tgaacaccgg tcttccatcc 240  
ctgatgatgt ttggtggatc tctgctcaaa tgggttcaga acacacacgg ggtggaatca 300  
ctcttgtcct ctgccaaggt gcgcctgctt ccaccagccc taggggttct gttccaaga 360  
ctacaccctg gcaactctgac ccttgtcttc cttttaattc ccttctca agtgtcttct 420  
tccacatctg acgttcttag ctctttagag tccccaaaac tatctgttac catatttcat 480  
tattgttaac tctaaagatt ttggcatcaa acaccctgca tttgaatgct agctgtgtca 540  
cacatcagat gctttacttt ggcaaatcat agaactttct gtcaataggg ataataatgg 600  
tacctatatt gtaatatgtg gagtgttact tggataataa agtacatagc acagtatttg 660  
gcacatagta attgctcaac aataccaatt gttattatta ttagactgtg ccctctaaat 720  
tatttgtcta cggattatga tctgtataaa tgacttatca attaagaaga ccacaggat 780  
gcagagtctc atcactcata caagactgat gtcaattaac tagagaagt ttcgtcacta 840  
accaggagtt tcacatcata gttccacact ttgcttctac tccaatatg gcttgttgac 900  
ttttcactct ctttaccctg ttttctttct atgggtccca gggctatcac ttttctttat 960  
tttggttaat acatatagct gtacactgac ccagtctcca tgaaaaatac tgtcatatac 1020  
tccctctttc cctctttccc taatatcatc atctcataga gatcaaactc acattttctg 1080  
gcaccattat tctttttata aaatacttta cttttaaaatt tttaccaac tacgtctatg 1140  
ttatttttagc tagctaagct gctataacaa agagatctaa atacagtggc ttaaatataa 1200  
cagaagcata tttttctctc atgtaacagc tagagga#g tgtgtagtcc agagcataca 1260  
aaccacaagt cattcatgac 1280

<210> 42  
<211> 742  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (707)..(707)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (724)..(724)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (726)..(726)  
<223> n equals a,t,g, or c

<400> 42  
gcgctcgaga atagtgggtc ccccggrctg caggattcgg cacgagctca cttcaatyct 60  
tctttgagaa gtttttctct tctccgcaac agatgtaca tatttgaact ctctttgtac 120  
ttggagggca cttctttcgt ggtagtctt ttatttttat taatctctgt atccttagat 180  
agtctccaa caaccaaagg ttgggactct gtcttacata tctgggtgcc cctcatagtg 240  
cagtaataag taagttgatt atatacgagc tatgtaactt atatttttta atggttggat 300

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| atcactgagt | tttttttttt  | aagaattttt | ttattgaggt | aaacttcaca  | taacataaaa | 360 |
| ttaactat   | taaagtgaga  | agttcagtg  | cacttagtat | tgtaacaat   | gttgcataac | 420 |
| caccacct   | atttaaagtt  | ccaaaaaaaa | tgcttcctc  | taaaaggaaa  | ccccatccca | 480 |
| ttaagcagat | actctccatt  | ccttcctcc  | tccagcccc  | agcaaccacc  | aatctgcttt | 540 |
| ctgtctctat | ggatttatct  | attcttgcta | ttttatataa | atcgaattgt  | atgagacctt | 600 |
| ttgtgtctgg | cttctttcac  | ttagtacaag | tttttgagat | ttattttacat | agtagcatgt | 660 |
| atcaacactt | cattttttatg | gccaaataaa | attgtattat | gtgtttntag  | cacaaaaaa  | 720 |
| aaananaaaa | atgaccctcg  | ag         |            |             |            | 742 |

<210> 43  
 <211> 1472  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| <400> 43   |            |            |             |            |            |      |
| ncttagctgt | agatagaggc | ggcaacctcg | gaagtgcgga  | gcgggtgggc | ctatatagat | 60   |
| gttgaggtgc | ggaggcgtg  | ggcttttgtt | gggcctggct  | gtagccgcag | cagcggtaat | 120  |
| ggcagcacgg | cttatgggct | ggtggggctc | ccgcgctggc  | tttcgccttt | tcataccgga | 180  |
| ggagctgtct | cgctaccgcg | gcggcccagg | ggaccggggc  | ctgtacttgg | cgttgctcgg | 240  |
| ccgtgtctac | gatgtgtcct | ccggccggag | gcactacgag  | cctgggtccc | actatagcgg | 300  |
| cttcgcaggc | cgagacgcat | ccagagcttt | cgtgaccggg  | gactgttctg | aagcaggcct | 360  |
| cgtggatgac | gtatccgacc | tgtcagccgc | tgagatgctg  | acacttcaca | attggctttc | 420  |
| attctatgag | aagaattatg | tgtgtgttgg | gagggtgaca  | ggacggttct | acggagagga | 480  |
| tgggctgccc | accccggcac | tgaccaggt  | agaagctgcg  | atcaccagag | gcttgagggc | 540  |
| caacaaacta | cagctgcaag | agaagcagac | attcccgcg   | tgcaacgcgg | agtggagctc | 600  |
| agccaggggc | agccggtct  | ggtgctccca | gaagagtggg  | ggtgtgagca | gaagctggat | 660  |
| tggcgtcccc | aggaagctgt | ataagccagg | tgctaaggag  | ccccgctgcg | tgtgtgtgag | 720  |
| aaccaccggc | ccccctagt  | gccagatgcc | ggacaacct   | ccacacagaa | atcgtgggga | 780  |
| cctggaccac | ccaaacttgg | cagagtacac | aggctgcccc  | ccgctagcca | tcacatgctc | 840  |
| ctttccactc | taagccgtag | cctcttctgt | taataacaca  | cagagagctc | tgccaagcac | 900  |
| ctgagtaggc | ccttgacact | tgtgtgccct | gggatgcctc  | ctggcgcgaa | tcaggagggt | 960  |
| ctggaaggac | tctggctata | ttctgcaaat | gtggtcatg   | ccccttaccg | tggctcggcg | 1020 |
| ttgtggtgcc | tgagggacag | ccggccacct | gcccagttact | ggtcagctt  | tcaacactat | 1080 |
| tccctttgac | ctactggcca | tcttctctac | agccctcaga  | tatcaacggg | cacaaataag | 1140 |
| accaactcaa | tttccacttg | aatttacaac | caaaagcctg  | ctgagttgat | tacagctggg | 1200 |
| ccaatacagt | acgaggcaat | aacaaattag | tgtgggttga  | ttctggaatt | ggaaaagctt | 1260 |
| ttgcttgtat | ggatacagca | aatccagatg | tctctgaaca  | aagcaacaat | ttaaagcaac | 1320 |
| gacattttct | gtcctttaag | cacttaaaat | caggtgtggt  | gtgttttcaa | aggcagaagt | 1380 |
| ctgcattttg | agcaaaaggt | ggcttcccag | ctctaacaag  | gtaactgggt | agcatgacat | 1440 |
| taaagcttgg | gcaaggcttc | aaacttaaaa | aa          |            |            | 1472 |

<210> 44  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 44   |            |            |            |            |            |     |
| gcctaaagag | agctccccc  | ggaccagccc | tggccaaggg | attgctgcag | ccctcatcca | 60  |
| ccttccaagc | actggaaca  | aacattggag | accaagttag | gcgtcactca | acagccgtag | 120 |
| taatcaggga | aatgacaagt | tacatactga | tatcctttgt | tttgctgatt | ggagttgggt | 180 |
| gcattgaaaa | agatcagtcg | tgcccagtg  | ttgggggaag | gaagcgtctt | cacctgttgt | 240 |
| ttgtgggagg | acagttgagg | caggtgagga | tgctgagagg | tgagctcagc | tgtgcctgtt | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| accgtccaca | tgtgcaagcc | cttcagctcg | gtggttgtac | ttgttttga  | gatgcagttt | 360 |
| cactcttgtc | acccaggctg | gagtgcattg | catgatcttg | gctcgctgca | acatccgcct | 420 |
| cccgggttca | agcgattctc | ctgtctctac | taaaaatata | aaaattagct | gggtgtggtg | 480 |
| gtgcgtgcct | ttaatcccag | ctactcagaa | ggctgaggtg | caagaattgc | ttgaacctgg | 540 |
| gaggtggagg | ttgccgtggg | ccgagatcac | gccaccgcac | tccagcctag | gcaacagagc | 600 |
| tagactgtct | caaaaaaaaa | aaaatgaccc | tcgag      |            |            | 635 |

<210> 45  
 <211> 1153  
 <212> DNA  
 <213> Homo sapiens

|              |             |             |            |             |             |      |
|--------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 45     |             |             |            |             |             |      |
| ggattaaggt   | gtggtccctg  | gaccatgccc  | aacggcatag | gcagacttg   | aaaactggct  | 60   |
| aaaaacgcag   | actctcaggc  | cccgggccag  | agctactgaa | tcaaaatctg  | catgawcaca  | 120  |
| ggagcagccc   | tctggcccat  | aatgacggcc  | ctgtcttcgc | aggtggccac  | tcgggcccgc  | 180  |
| agccgctggg   | taaggggtgat | gcctagcctg  | gcttattgca | ccttcctttt  | ggcgggttggc | 240  |
| ttgtcgcgaa   | tcttcattct  | agcacatttc  | cctcaccagg | tgctggctgg  | cctaataact  | 300  |
| ggcgtgtgcc   | tgggctggct  | gatgactccc  | cgagtgccta | tggagcggga  | gctaagcttc  | 360  |
| tatgggttga   | ctgcactggc  | cctcatgcta  | ggcaccagcc | tcattctattg | gacctctttt  | 420  |
| acactgggccc  | tggatctttc  | ttggtccatc  | agcctagcct | tcaagtgggtg | tgagcggcct  | 480  |
| gagtggatac   | acgtggatag  | ccggcccttt  | gcctccctga | gccgtgactc  | aggggctgcc  | 540  |
| ctgggcctgg   | gcattgcctt  | gcactctccc  | tgctatgccc | aggtgcgtcg  | ggcacagctg  | 600  |
| ggaaatggcc   | agaagatagc  | ctgccttggt  | ctggccatgg | ggctgctggg  | ccccctggac  | 660  |
| tggtctgggccc | acccccctca  | gatcagcctc  | ttctacattt | tcaatttcct  | caagtacacc  | 720  |
| ctctggccat   | gcctagtcct  | ggccctcggt  | ccctgggcag | tgacatggt   | cagtgccag   | 780  |
| gaagcaccgc   | ccatccactc  | ttcctgactt  | cttgtgtgcc | ttcctttcct  | ttccctccca  | 840  |
| caaagccaac   | actctgtgac  | caccacactc  | caggggcag  | ccccatcccc  | ttccagcccc  | 900  |
| taagtaggcc   | ctccccctcc  | taaatctgct  | tcgcaccac  | ctggtcttag  | ccccaaagat  | 960  |
| gggcctttctc  | tctcccagat  | aagttgggtc  | ttcctctgcc | tttctctctca | agcccccaaa  | 1020 |
| gagcaaaggc   | aacagcaaga  | ccagcgggtt  | cttgcaacac | tgtgaggggc  | agccagggcg  | 1080 |
| gccccataaa   | agcccttgaa  | tacttttraaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1140 |
| aaatgaccct   | cga         |             |            |             |             | 1153 |

<210> 46  
 <211> 729  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 46   |            |            |            |            |            |     |
| ggcacgagca | ggaaccctgt | cagcagaaac | ttctcagcc  | ccatccttgc | caggaagctc | 60  |
| tgtgaaggtg | ctgctgatga | cccagattcc | tccatgggtc | tcctgtgtct | cctgttggtg | 120 |
| cccctcctgc | tcagtctctt | tgtactgggg | ctatttcttt | ggtttctgaa | gagagagaga | 180 |
| caagaagagt | acattgaaga | gaagaagaga | gtggacattt | gtcgggaaac | tcctaacata | 240 |
| tgccccattt | ctggagagaa | cacagagtac | gacacaatcc | ctcacactaa | tagaacaatc | 300 |
| ctaaaggaag | atccagcaaa | tacggtttac | tccactgtgg | aaataccgaa | aaagatggaa | 360 |
| aatccccact | cactgctcac | gatgccagac | acaccaaggc | tatttgctta | tgagaatgtt | 420 |
| atctagacag | cagtgcactc | ccctaagtct | ctgctcaaaa | aaaaaacaat | tctcggccca | 480 |
| aagaaaacaa | tcagaagaat | tactgtattt | gactagaaac | atcaaggaag | aatgaagaac | 540 |
| gttgactttt | ttccaggata | aattatctct | gatgcttctt | tagatttaag | agttcataat | 600 |
| tccatccact | gctgagaaat | ctcctcaaac | ccagaagggt | taatcacttc | atccccaaaa | 660 |
| tgggattgtg | aatgtcagca | aaccataaaa | aaagtgtcta | gaagtaaaaa | aaaaaaaaaa | 720 |
| aaaaaaaaaa |            |            |            |            |            | 729 |

<210> 47  
 <211> 1079  
 <212> DNA

<213> Homo sapiens

<400> 47

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| ggcaccgagcc | aatttgccaa | ggttctaaag | gttatgagg  | tcctgaagga  | gccaggcctt | 60   |
| gtgatggagt  | aggtgacaca | ggcctggttg | tcctgtcagc | agaaggga    | gcaggggctg | 120  |
| ggctgagagg  | aggacacgga | gggctctgct | gaggttcctt | cctgggttcc  | accaacaggg | 180  |
| acagggagtc  | acttgccttc | cagttctgtg | ctgggatggc | gggacagcac  | ttggcttgct | 240  |
| tggccagctg  | cgtcatgagt | ttgatttggt | ttttttttt  | ttgcagctgc  | ttcatatgct | 300  |
| ctgctccagc  | ccctcccaaa | cagctggtag | cttatggttt | cttcaagagg  | aaagtagact | 360  |
| ttatgctgta  | catttgagct | gtagagctaa | gattcgctta | ctggtgagct  | gtgaaacctt | 420  |
| gttgcttttt  | cccagagtct | gatggagt   | actgtgatca | agggaatctt  | caccgccaca | 480  |
| agtgcaggca  | gcaggtgtgg | ttcaggtccc | ccccacccc  | actgtgctcc  | tttgaagcca | 540  |
| acgtgcctcc  | ctgcctcca  | tactggaggg | acgacgcagg | ggagaacaga  | gaagtgcctg | 600  |
| gccctaggat  | tgaggcactt | gtttcctagc | ccgctgggtt | agggctgggtg | caagcggc   | 660  |
| aatgttgagg  | atgctttaag | cactaccagg | cgaatccggg | aactctgtta  | acagttgtcc | 720  |
| aaccagcaga  | atgaggctaa | ctgtataaag | catgggaccc | aggatgagga  | taaggaaagg | 780  |
| acagcggctt  | tccctgggca | gtacaatggc | ttgaaggcaa | aaagggataa  | agtacagcc  | 840  |
| gactgtgact  | ctggtgagga | ggggtgagca | gggaggttga | ttctctgatg  | ttaactaagt | 900  |
| ggcaaagtct  | caaccgtgct | cagccctccc | cctcccaggg | aagagaaaca  | aagattcaaa | 960  |
| gtaagcatga  | tactagtggg | tttaccagtg | tttcttccaa | ggagacatat  | atTTTTTaat | 1020 |
| aaacgatagt  | tgcaatgaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaa    | 1079 |

<210> 48

<211> 1959

<212> DNA

<213> Homo sapiens

<400> 48

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| ttaaggttgc  | cgctagccgc  | ctgggaattt | aagggaccca | cactaccttc | ccgaagttga | 60   |
| aggcaagcgg  | tgattgtttg  | tagacggcgc | tttgtcatgg | gacctgtgcg | gttgggaata | 120  |
| ttgcttttcc  | tttttttggc  | gtgcacgag  | gcttgggctg | ggatgttgaa | ggaggaggac | 180  |
| gatgacacag  | aacgcttgcc  | cagcaaatgc | gaagtgtgta | agctgctgag | cacagagcta | 240  |
| caggcggaac  | tgagtgcgac  | cggtcgatct | cgagaggtgc | tggagctggg | gcaggtgctg | 300  |
| gatacaggca  | agaggaagag  | acacgtgcct | tacagcgttt | cagagacaag | gtggaagag  | 360  |
| gccttagaga  | atttatgtga  | gcggatcctg | gactatagtg | ttcacgctga | gcgcaagggc | 420  |
| tcactgagat  | atgccaaggg  | tcagagtcag | accatggcaa | cactgaaagg | cctagtgcag | 480  |
| aagggggtga  | aggtggatct  | ggggatccct | ctggagcttt | gggatgagcc | cagcgtggag | 540  |
| gtcacatacc  | tcaagaagca  | gtgtgagacc | atgttgagg  | agtttgaaga | cattgtggga | 600  |
| gactgggtact | tccaccatca  | ggagcagccc | ctacaaaatt | ttctctgtga | aggtcatgtg | 660  |
| ctcccagctg  | ctgaaactgc  | atgtctacag | gaaacttgga | ctggaaagga | gatcacagat | 720  |
| ggggaagaga  | aaacagaagg  | ggaggaagag | caggaggagg | aggaggaga  | ggaggaagag | 780  |
| gaagggggag  | acaagatgac  | caagacagga | agccacccca | aacttgaccg | agaagatctt | 840  |
| tgacccttgc  | ctttgagccc  | ccaggagggg | aagggatcat | ggagagccct | ctaaagcctg | 900  |
| cactctccct  | gctccacagc  | tttcagggtg | tgtttatgag | tgactccacc | caagcttgta | 960  |
| gctgttctct  | cccattctaac | ctcaggcaag | atcctggtga | aacagcatga | catggcttct | 1020 |
| ggggtggagg  | gtgggggttg  | aggtcctgct | cctagagatg | aactctatcc | agccccctaa | 1080 |
| ttggcagggtg | tatgtgctga  | cagtactgaa | agctttcctc | tttaactgat | cccaccccc  | 1140 |
| cccaaaagtc  | agcagtgcca  | ctggagctgt | gggctttggg | gagtcactt  | agctccttaa | 1200 |
| ggtctgtttt  | tagacccttc  | caaggaagag | gccagaacgg | acattctctg | cgatctatat | 1260 |
| acattgcctg  | tatccaggag  | gctacacacc | agcaaaccgt | gaaggagaat | gggacactgg | 1320 |
| gtcatggcct  | ggagttgctg  | ataatttagg | tgggatagat | acttggctta | cttaagctca | 1380 |
| atgtaaccca  | gagcccacca  | tatagtttta | taggtgctca | atTTTctata | tcggcctatt | 1440 |
| aaacctttgt  | tacctattgt  | ttccttaaca | caaaacgatc | acacaccaca | acacacgcaa | 1500 |
| cccagacaca  | aacaaccaac  | accagagcgc | gccacacaac | acacacgagg | gaggcgacgt | 1560 |
| gaaaaagata  | actacacaga  | gaggcgacac | cagatacag  | taatagaaac | atatattatt | 1620 |
| ataaaaaggtg | accccataag  | acgatgcgtc | actataataa | acctacacga | cagaacagcc | 1680 |
| agcacgccat  | tgtacaacag  | ccgacgccac | cagcagcgga | ccaaaacaac | tccatcagct | 1740 |



|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| ggactcactg  | cgttggaaaag | gaggaagcca | ccaaccctcg | cgtgagcgca | gctacaccca | 1800 |
| ctggggaccca | acaccaccg   | cacagagtta | accacgccgc | cgtgacattc | tacacgaaca | 1860 |
| ccgacgcgtc  | ttgggtatcc  | acaaaccag  | tataatgagc | agcagagaaa | aacgcatgat | 1920 |
| gacgactgat  | tagattcagc  | gcgccgcaac | gtaatgacg  |            |            | 1959 |

<210> 49  
 <211> 812  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (108)..(108)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 49   |            |            |            |            |            |     |
| gaccattttt | agccaanctt | ggaattaacc | ctcacttaag | ggaacaaaag | ctggagcttc | 05  |
| caccgcggtg | gcggccgctc | tagaactagt | ggatcccccg | ggctgcanga | attcggccac | 120 |
| gagaggactt | ccccacctca | tgcagctatt | tgggccgtgg | cgtctgaaat | ttattatttc | 180 |
| agagtcaccc | ctttratgac | cttggcagtg | ractgcagtc | atctgtttag | gcctttccat | 240 |
| ggccccagtc | aatgccgtta | tttctgtttg | ttgcacattt | gatttccttg | ttgttggcat | 300 |
| ttagaaggcc | ccctgcttcc | cagatcacac | cacgggcatg | gaccacagag | attgcatctt | 360 |
| gtgagtctgt | agaaaatggc | aaggcccttg | cctctcttag | gtccagagct | caggtgaatg | 420 |
| cagatttttc | cggccatctg | tgctgaagtc | cctgtgggga | ggctcctggc | tggtttcctg | 480 |
| taggtagaca | gctacacgtc | ctgcccttca | ttggtctctt | ttcatgaagc | tcctgccatc | 540 |
| tacaaaacat | gtctcccttc | ttgaatcaca | tctctgttat | tgaagctctg | gaagtcaacc | 600 |
| gggctgtgtg | gctatgccta | taatcccagc | atcttgggat | gccggggcgg | gtggatcacc | 660 |
| tgaggtcagg | agttcgggac | cagctgggcc | aacatggcga | aaccccgtct | ctaatacaag | 720 |
| tgcaaaaatt | ggccaggcgt | ggtggtcact | gtgctccagc | ctgggtgaca | gagcgagctc | 780 |
| cgtctcaaaa | aaaaaaaaaa | aaaaaactcg | ag         |            |            | 812 |

<210> 50  
 <211> 1756  
 <212> DNA  
 <213> Homo sapiens

|             |            |              |            |              |            |     |
|-------------|------------|--------------|------------|--------------|------------|-----|
| <400> 50    |            |              |            |              |            |     |
| ggcacgagtt  | ttcctctcac | atatatatattg | ttttgtgtcc | ctggctaaaag  | tacaagcttt | 60  |
| ttgaaggcag  | aaaccatgtc | tttggtttct   | tttgtatttc | ccatagcacc   | ttttactgtg | 120 |
| agagtgggca  | cacagtatat | gttgtggaat   | gacatcctga | gtgatccctc   | cctggctggg | 180 |
| cctcagatta  | aattccctga | aatggaacag   | tcctaaccac | cacaggacag   | gtattctcca | 240 |
| tctggcatgt  | tggttgctcc | tttcaacctg   | ctatttgaaa | tggctccctt   | caacatcttt | 300 |
| ctgttccccac | agtggggctt | gctatggcta   | atgctgtact | tgctgtatgt   | gttccaggcg | 360 |
| agtctgcgga  | caccagaact | gacctgggag   | cgagtggagt | ctcaagttga   | ccaggatat  | 420 |
| ggcctgatgg  | caagaggata | gtactgctgg   | cagaggtaag | ctgagactgg   | caaaaatact | 480 |
| ccccacacac  | aggagagact | gcaataccca   | ggtccctctc | tcctcatgtt   | ctcgaatact | 540 |
| ttcaactcct  | ctgttaagca | caagtttgac   | tactttccca | atggatttta   | cttctaattg | 600 |
| tgaagaatct  | tttcattcag | caattaagaa   | actattttgg | ttccccactt   | ttcaccaatt | 660 |
| atcctgtctc  | tccacgtcaa | tccacagggt   | gagttagata | attattacta   | tagaaggaat | 720 |
| tcacagatag  | aaccagtgcc | actttgagtg   | atgcatacaa | agagataatg   | tcacttgtag | 780 |
| gatgttttaa  | tcactaagca | caaagtagat   | atgcccgact | gtaaccaggact | atctttagg  | 840 |
| caagttctgg  | gaatgtatgt | ttttactgat   | agattccctg | tttttgaagt   | ccattccctt | 900 |

|             |            |             |            |             |            |      |
|-------------|------------|-------------|------------|-------------|------------|------|
| gaattgagcc  | agatgagtat | aggtacctac  | ctagatatca | attgctcaat  | tgatatttcc | 960  |
| ccatcctagc  | tcctagctca | cattgacact  | attgactttc | atatttattgg | cttccatgtc | 1020 |
| agtgtttgac  | cacttttcc  | ttctttaaag  | ctcctcttcc | ctagtccctgg | attcctgaca | 1080 |
| gctataatat  | tagatgcctt | ctattctttac | cttgaagctt | tctcttcttc  | agagaaagat | 1140 |
| acaaaaatat  | caaggaggat | aataatactt  | ttctcaattt | tgattttcag  | ttggtttttt | 1200 |
| ttcttttttt  | atattaaaga | acctgaatat  | gaaaatgtaa | aataacatt   | gtctttatct | 1260 |
| aggggcccac  | aagttaggag | tttttagtgt  | ccttactgtt | tcttcacatt  | ttcctcactt | 1320 |
| tatctcatct  | tctcagatac | ttcagggcat  | ttgtaaagg  | actgaactat  | ttcttcacaa | 1380 |
| ggaaggagta  | tatatgagga | ggagatgggc  | agattgccaa | atatgcatta  | atagctttga | 1440 |
| tgctcagtctg | ctgactgatg | acttgtttct  | agctgcccta | ggaggtccca  | cctggtaatt | 1500 |
| ttggtgacaa  | aagcaagtac | catgggtgtt  | tttggctaga | tggttgagca  | aaaagggtgt | 1560 |
| caggcttcac  | aggaaacaaa | ataggaaaagg | gtggcattgg | gggcaatttc  | tagttcttct | 1620 |
| actgtctgaa  | tcaccaactc | aaaaatacaag | gctgacaatg | ctgtctttga  | attcaggaga | 1680 |
| agcaaaactga | aggagaagca | caaaaatcat  | cacagctatg | gtgaaaccct  | gtctctacaa | 1740 |
| aaaaaaaaaa  | aaaaaa     |             |            |             |            | 1756 |

<210> 51  
 <211> 2098  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 51    |             |            |             |             |             |      |
| ggcacgaggg  | accgagctat  | tctcctggga | ctggctatga  | tggtgtgctc  | catcatgatg  | 60   |
| tattttctgc  | tggaatcac   | actcctgcgc | tcatacatgc  | agagcgtgtg  | gaccgaagag  | 120  |
| tctcaatgca  | ccttgctgaa  | tgctgccatc | acggaaacat  | ttaattgctc  | cttcagctgt  | 180  |
| ggtccagact  | gctggaaact  | ttctcagtac | ccctgcctcc  | aggtgtacgt  | taacctgact  | 240  |
| tcttccgggg  | aaaagctcct  | cctctaccac | acagaagaga  | caataaaaaat | caatcagaag  | 300  |
| tgctcctata  | tacctaaatg  | tggaaaaaat | tttgaagaat  | ccatgtccct  | ggtgaatgtt  | 360  |
| gtcatggaaa  | acttcaggaa  | gtatcaacac | ttctcctgct  | attctgacct  | agaaggaaac  | 420  |
| cagaagagtg  | ttatcctaac  | aaaactctac | agttccaacg  | tgctgttcca  | ttcactcttc  | 480  |
| tggecaacct  | gtatgatggc  | tggggtgtgt | gcaattgttg  | ccatggtgaa  | acttacacag  | 540  |
| tacctctccc  | tactatgtga  | gaggatccaa | cggatcaata  | gataaatgca  | aaaatggata  | 600  |
| aaataatttt  | tgttaaagct  | caaatactgt | tttcttcat   | tcttcaccaa  | agaaccttaa  | 660  |
| gtttgtaacg  | tgcatctctg  | tatgagttcc | ctaataatatt | cttatatgta  | gagcaataat  | 720  |
| gcaaaagctg  | ttctatatgc  | aaacatgatg | tctttattat  | tcaggagaat  | aaataactgt  | 780  |
| tttgtgttgg  | ttggtggttt  | tcataatctt | atttctgtac  | tggaactagt  | actttcttct  | 840  |
| ctcattccgc  | caaaacaggg  | ctcagttatt | catttgccaa  | gcttcgtgga  | ggaatgtagg  | 900  |
| tgacatcaat  | gtgataaagt  | ctgtgttctg | agttgtcaga  | tctcttgaa   | acaatatttt  | 960  |
| tcatacactta | ttgtttacta  | aagctacagc | caaaaatatt  | tttttttctt  | attctaaact  | 1020 |
| gagccctata  | gcaagtgaag  | ggaccagatt | tcctaattaa  | aggaagttag  | gtacttttct  | 1080 |
| tgtatttttt  | accatatcac  | tgtaaagaag | aggggaaacc  | cagccagcta  | ctttttttca  | 1140 |
| tcacttttta  | ttcataactt  | cagatttgta | aaactaattt  | ccaaaatata  | agctgttttc  | 1200 |
| attagccagt  | tctataatat  | cttcctgtga | tttatgtaga  | aaatgaacac  | accccttttc  | 1260 |
| catttaagac  | cctgctactg  | tgtgaagaga | tgatacttac  | aaggagtgtc  | attacctgtg  | 1320 |
| agctgactga  | atgtttgtag  | gtgctccatt | acaatccagg  | aaagtctgtg  | ttactgatat  | 1380 |
| ttgtgtggaa  | atcttttatt  | cacttcaatt | taaccattag  | atggtaaaat  | taagatgcta  | 1440 |
| ctgtttggta  | aaaattgggtg | gadtggtttc | aatgggtaaa  | tgtgttggtg  | caaattaatg  | 1500 |
| tggttgaata  | ttgctctttg  | tgaatttggt | cttaagtcaa  | tgaatgtgta  | gtatctcctt  | 1560 |
| ctgacaagca  | ttccctattg  | ggattttaaa | gctatgtgca  | cagaatatta  | gtctcttcta  | 1620 |
| catgttttat  | ttttctattt  | ataattccct | tttttgttgt  | tatatatttat | acaaagaata  | 1680 |
| gatctttttt  | ctaacacata  | tttgaactga | ataacagact  | taaagaaagc  | ctttgttcac  | 1740 |
| attgctattt  | acttttgtgt  | ttgggggaaa | atacagagga  | ttgattttta  | ataaaaaaca  | 1800 |
| ttccatcttt  | catttaatat  | caatatcaaa | agaagaagac  | aaacatctat  | ctttctcatc  | 1860 |
| tatattttaag | tacctttttg  | taatgtagta | tcaaagtttt  | ttaggtaatg  | caaaaatttta | 1920 |
| caaatcattt  | gtggaatgaa  | tggtaaaact | aatctgatga  | aatggaaaat  | tattctgcaa  | 1980 |
| tattgttaatt | catagtttga  | cttttcataa | gcaaaataat  | ccctaggatg  | taatcaggac  | 2040 |
| ttcaaatgtg  | taattaaatt  | tttttaaaaa | aaatctaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2098 |

<210> 52  
 <211> 1675  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
 cttaaagacg ccaggtagag acacacagaa cgtatgtatt aagaatatcc tctctgggct 60  
 ctgaaatfff aggagtgatt cttatccact ccaagttgta agtatttgta gaaatttggt 120  
 caaacaacaa aaaactatca aatgaaaaga aaatgtactc aacctaactt atagtttagca 180  
 gctggaattc tcaactcttc cctgccagca ctataccaca gtgtggaaga aattagtcaa 240  
 atgcttggtt tctgtcttct cttttcaact gttactgtgc tttgtttgaa agtagttttc 300  
 tctctcaaag ccgttgctta tatcgttaag aatgaagggt tgtgtttaaaattttattgca 360  
 ttgcaaaggg tagtttcaact gaagtcatgc accattaaat aagatgaaat atttgatttt 420  
 attgtcctac ttcctaagcc gtaacttctt ttcctctgtg aatttgcaat gagtcaactca 480  
 tgctacacta catcgcttta gtatttgaga tggcatttat gtttctcttc gtttatcatg 540  
 aaatgggggtc agattccatc agattccacc tctgtcaggt ggactcctgt ctgccttcca 600  
 tgatgagatt ttttttctcc ttcccctttc ttttaagagag gctgacagat ctaggtgtca 660  
 atcaattgga aaccagtctc tgattttttt tcattagtta ttttctatca ttagtttcac 720  
 tgtgtaaatt agatatcaac tgcacttctt taaaaaaaaa taccctccc tattacctcc 780  
 ttgaaagatt tacttctgta ggcctttttc aataggctca tgactgcaga caaggaaaaa 840  
 aaaagtaaaa acaaaaaacag tatgtgcctg aaaatgacaa aaaaaaaatt tgtaacattt 900  
 aaaaaagaaa cctgaatagc ctttaattct ttaataatac acttaaaatt tatgtaaatc 960  
 gggttttcgcc acgtgtgttt gttcacattc taaatgactt aatgggattc tcacggtctg 1020  
 tgtctttgtg tcacgtgtat aaaatgggct tgtgatgtaa gcgtttcatc tggtcagtgg 1080  
 ttctcttgat attgtactgc tgctgggagt gggtctgtga acctgccttc gggttaactgg 1140  
 gttcctcttg ggtagattgg agagatgggg gtgggcgtg gcaaattctc acacatgttt 1200  
 tcttaaccta tttgcagaaa ctttcaaaaag gcatgtgatt aaacctcttg gcagtacagt 1260  
 attcttgat ttgttaacgt ctgtgttttag gtactggtac ctttttggtt taaaatgttc 1320  
 taagtgttgg ctttaaaagt aatttatctt tagtatgata gttatatgaa aattatagga 1380  
 tttgtgtgca gagaattttt ttataaaagt ctttgtaaaa aaaaaaaaaat gtattctagc 1440  
 ttttgcggtg catatgtgtg ataactttta taccatgac agttaagtgc aattatttca 1500  
 tcactctaaa aatgctattt ttgtgtcagt tctgcaggt gttttcatgt ctttgcaaaag 1560  
 tgacacattt tgatgccttc ttgataaagt ggtgacatt ttgtagcttt ctagaaactt 1620  
 tgtattcata cggatatcaat gaaaaataaa gaaaatgaaa gtgtgggtca aaact 1675

<210> 53  
 <211> 1280  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
 gggcagactt aactgctgtc tgctcagcat ggaagccagg agccaaacca gtgggcttga 60  
 tgacagttag ctatttctgg tggctcaggg ttggggcttg ggccgaagat gtggaggccc 120  
 tggcttccct tcttgaggac agactgaggt ggaacctttt ggctctgcca gcttctccat 180  
 gtgcagtcac agcactggtg gcaaggcata ggagagctgg gctacaaaaga agcattcagt 240  
 gtctcctggg gcggcaggga ggtgggggtt gtaattgtga actcaccaaaa cccaggttg 300  
 gcagtaagtg ggtgggtcat aggaagaaaa gtgatcttca gtcaggagac ttgggttctg 360  
 ggctctgtct gatgactggc tctgtgatgt gagccagggt acttctctaa ccctgagttg 420  
 cctcatctgt aaagataatt ccagtcttgg aggattttta tggasyaaaa aggacagagc 480  
 gctcctgtgt atcccctgca aatggttaga cgttatccat ttacagcccc tgccaagcca 540  
 ccactagctt cttcagagaa cttttgaacc ctgcctccct aaagtagtgc taaaacattt 600  
 ttactgtgtg taccatcaa gggaaacaaa atgtttctac aaaccatagt aaataggatc 660  
 gtttttgat tgtgtttcaa ggaggaaaa ctgaccagca agaagaacgt cggagacaaa 720  
 agcagatgaa ggttctgaag aaggagctgc gccacctgct gtcccagcca ctgtttacgg 780  
 agagccagaa aaccaagtat ccactcagt ctggcaagcc gccctgctt gtgtctgcc 840  
 caagtaagag cgagtctgct ttgagctgtc tctccaagca gaagaagaag aagacaaaga 900

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| agccgaagga | gccacagccg  | gaacagccac | agccaagtac | aagtgc aaat | taactgggtca | 960  |
| agtgtgtcag | tgactgcaca  | ttggtttctg | ttctctggct | atttgcaaaa  | cctctccac   | 1020 |
| ccttgtgttt | cactccacca  | ccaacccag  | gtaaaaagt  | ctccctctct  | tccactcaca  | 1080 |
| cccatagcgg | gagagacctc  | atgagattt  | gcattgtttt | ggagtaagaa  | ttcaatgcag  | 1140 |
| cagcttaatt | tttctgtatt  | gcagtgttta | taggcttctt | gtgtgttaaa  | cttgatttca  | 1200 |
| taaattaaaa | acaatgggtca | gaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa   | aaaaammmag  | 1260 |
| gsgggcccg  | gaaccaattt  |            |            |             |             | 1280 |

<210> 54  
 <211> 953  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 54    |            |            |            |             |             |     |
| ctccaatgta  | tatttggttt | ataattttct | tcatccagcc | tcacaaagag  | gagagatttc  | 60  |
| ttttccctgt  | gtatccactt | atatgtctct | gtggcgctgt | ggctctctct  | gcacttcaga  | 120 |
| aatgttacca  | ctttgtgttt | caacgtatc  | gcctkgagca | ctatactgtg  | acatcgaatt  | 180 |
| ggctggcatt  | aggaactgtc | ttcctgtttg | ggctctgtgc | atcttctcgc  | tctgtggcac  | 240 |
| tggttcagagg | atatcacggg | ccccttgatt | tgtatccaga | atcttaccga  | attgctacag  | 300 |
| acccaaccat  | ccacactgtc | ccagaaggca | gacctgtgaa | tgtctgtgtg  | ggaaaagt    | 360 |
| ggtatcgatt  | tcccagcagc | ttccttcttc | ctgacaattg | gcagcttcag  | ttcattccat  | 420 |
| cagagttcag  | aggtcagtta | ccaaaacctt | ttgcagaagg | acctctggcc  | acccggattg  | 480 |
| ttcctactga  | catgaatgac | cagaatctag | aagagccatc | cagatatatt  | gatatcagta  | 540 |
| aatgccatta  | tttagtggat | ttggacacca | tgagagaaac | accccgaggag | ccaaaatatt  | 600 |
| catccaataa  | agaagaatgg | atcagcttgg | cctatagacc | attccttgat  | gcttctagat  | 660 |
| cttcaaagct  | gctgcgggca | ttctatgtcc | ccttcctgtc | agatcagtat  | acagtgtacg  | 720 |
| taaactacac  | cattctcaaa | ccccggaaag | caaagcaaat | caggaagaaaa | agtgagggtt  | 780 |
| agcaacacac  | ctgtggcccc | aaaggacaac | catcttgtaa | actattgatt  | ccagtgcacct | 840 |
| gactccctgc  | aagtcacgc  | ctgtaacatt | tgtaataaag | gtcttctgac  | atgaaaaaaa  | 900 |
| aamaaaaaag  | ggcgggcgct | ctagaggatc | caagcttacg | tacgcgtgca  | tgc         | 953 |

<210> 55  
 <211> 1027  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| <400> 55    |             |            |            |            |            |      |
| gtccgcccac  | gcgtccgtac  | aatgtatggt | gtgtgtttgt | gtgtataggt | tttgataaat | 60   |
| tttaactttt  | ttaaatagat  | ttatgtatgg | tagtaaatga | tagactagta | tctacatgta | 120  |
| ttttatgtac  | tcttcacata  | cctttatatt | ttttgatatt | tctagtctat | aggttcatc  | 180  |
| tggtttttca  | aattgtttgca | aatctccaaa | aaattttcca | atacatttat | tgaaaaaaa  | 240  |
| tccatgtata  | agtggaccca  | cacagttcaa | acccaagttg | ttcaaggatt | gactatttgt | 300  |
| ctatctaaac  | atacctaacc  | atagraaagg | tacagtaaaa | atacagtatt | ataatcttat | 360  |
| gggatcacca  | ttgtctatgc  | aggctgacat | tgaaatgtca | ttatgtacag | catgactgta | 420  |
| tagtgtttcc  | gagttctgtg  | aggctctcta | gcaaactaat | ggagctcaag | aaggggttat | 480  |
| gggaacccta  | acttatagct  | agttggttag | gacccttggt | caccatctgg | ggcttctgat | 540  |
| tgatcatctga | agtgggagcc  | atcttgtggc | actgagcytt | caaccatgg  | tatctgatgc | 600  |
| tatctccggt  | agtgtaaaga  | gtgaattgaa | ttagaggaca | cccagctggg | gtctgctgca | 660  |
| aaattgctta  | tttgcttaat  | gcgtggggaa | ccccctcca  | cacacatctg | gagtcagaaa | 720  |
| gggtgtttgt  | agattaaagt  | gggagaaact | gaatttgttt | attcctatat | tcagaatggg | 780  |
| gtccttgara  | acatcatagt  | ggtaagcata | gatgttctaa | agtcagactg | cctgggttca | 840  |
| tctctctgct  | ccaccacttc  | gagagttact | ttagctcact | gtgcttcagt | ttcctattaa | 900  |
| attgggataa  | taataccatc  | tcatagagta | acttaagaat | taaatcagtt | aatatacata | 960  |
| aagcacttgg  | aagtgtttga  | agcattaata | aacactcaat | agctaaaaaa | aaaaaaaaag | 1020 |
| ggcgggcc    |             |            |            |            |            | 1027 |

<210> 56

<211> 1368  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
 ctggccctcg ccttcaagct ggacgaggtg gccgcgtgg cgggtgctct gtgtggctgc 60  
 tgtcccggcg gcaatctctc caatcttatg tccctgctgg ttgacggcga catgaacctc 120  
 agcatcatca tgaccatctc ctccacgctt ctggccctcg tcttgatgcc cctgtgcctg 180  
 tggatctaca gctgggcttg gatcaacacc cctatcgctg agttactacc cctagggacc 240  
 gtgaccctga ctctctgcag cactctcata cctatcgggt tggcgtctt cattcgctac 300  
 aaatacagcc ggggtggctga ctacattgtg aaggtttccc tgtggtctct gctagtgcct 360  
 ctggtggctc ttttcataat gaccggcact atgttaggac ctgaactgct ggcaagtatc 420  
 cctgcagctg tttatgtgat agcaattttt atgcctttgg caggctacgc ttcagggttat 480  
 ggtttagcta ctctcttcca tcttcacccc aactgcaaga ggactgtatg tctggaaaca 540  
 ggtagtcaga atgtgcagct ctgtacagcc attctaaaac tggcctttcc accgcaattc 600  
 ataggaagca tgtacatgtt tcctttgctg tatgcacttt tccagtctgc agaagcgggg 660  
 atttttgttt taatctataa aatgtatgga agatgaaatg ttgcacaagc gagatcctct 720  
 agatgaagat gaagatacag atatttctta taaaaaacta aaagaagagg aaatggcaga 780  
 cacttcctat ggcacagtga aagcagaaaa tataataatg atggaaaccg ctacagacttc 840  
 tctctaaatg tggagataca caggagcttc tatcttgctg aaatattgct tcatatttat 900  
 agcctgtggg agtgcacatg gttaacataa agataaacac tggttcacat catacatgta 960  
 acaattctga tctttttaag gttcactggg gtattaaaca aacgttgtca caaattacaa 1020  
 atcaatgctg taatataatt tgcacctgga atggctaacg tgaagcctga attaaatgtg 1080  
 gtttttagtt tttaccatca ccaatttcta tgactgttgc aaatacagaa tctattagaa 1140  
 aacagggtct tggaaatgta gaattttggc gcaactatgag gaaaaacaag ctatctttgt 1200  
 aaagcataat tgagtttaat gtaattgttg taaaaaaaaa agtgtgcttg ctctacttaa 1260  
 aattcctcac aatgttgaat tttgacctgt attcagaaga attccaaaac aggtcagtta 1320  
 aataaggaaa tatagtattt gtcaaaccag tatcagagaa aagttaca 1368

<210> 57  
 <211> 402  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 gcgtccggca gatattgtca agttcatggc cttaggtagc atgtatctgg tcttaactct 60  
 gattgtagca aaagttctga gaggagctga gactgtgt ggccattaa agaacagggt 120  
 cctcaggccc tgcccgcttc ctgtccactg cccctcccc atccccagcc cagccgaggg 180  
 aatcccgtgg gttgcttacc tacctataag gtgggttata agctgctgtc ctggccactg 240  
 cattcaaatt ccaatgtgta ctccatagtg taaaaattta tattattgtg aggttttttg 300  
 tctttttttt tttttttttt ttttggata ttgctgtatc tactttaact tccagaaata 360  
 aacgttatat aggaacaaaa aaaaaaaaaa aaaaaaaaaa aa 402

<210> 58  
 <211> 864  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (706)..(706)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (745)..(745)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (748)..(748)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (757)..(757)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (765)..(765)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (772)..(772)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (781)..(781)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (813)..(813)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (840)..(840)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (842)..(842)  
 <223> n equals a,t,g, or c

<400> 58  
 gagaagacga cagaagggtg cggtctcnag aagacgacag aaggggaccc tccgcctgga 60  
 cgcagcagcc accgccgcgt cctctctctc acgaggctgc cggttagga cccccagctc 120  
 cgacatgtcg cctctgtggtc gctgtgtctt tctcaccatc gttggcctga ttctccccac 180  
 cagaggacag acgttgaaag ataccacgtc cagttcttca gcagactcaa ctatcatgga 240  
 cattcaggtc ccgacacgag ccccagatgc agtctacaca gaactccagc ccacctctcc 300  
 aaccccaacc tggcctgctg atgaaacacc acaaccccag acccagacc agcaactgga 360  
 aggaacggat gggcctctag tgacagatcc agagacacac aagagcacca aagcagctca 420  
 tcccactgat gacaccacga cgctctctga gagaccatcc ccaagcacag acgtccagac 480  
 agacccccag accctcaagc catctgggtt tcatgaggat gaccccttct tctatgatga 540  
 acacaccctc cggaaacggg ggctgttggt cgcagctgtg ctgttcatca caggcادات 600

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| catcctcacc | agtggcaagt  | gcaggcagct | gtcccggtat | gccggaatca | ttggagggtga | 660 |
| gtccatcaga | aacaggagct  | gacaacctgc | tgggcacccc | gaagancaaa | gccccctggc  | 720 |
| agcttaccgg | gcccgaagcct | ctggnatncc | cttgaanagc | ctggncagag | angggaagac  | 780 |
| nccgatgatg | aacttggacc  | cagggttgcc | ggncccaggg | ctcctacttc | cccaaacctn  | 840 |
| gnccggccct | tgaaggttac  | ctgg       |            |            |             | 864 |

<210> 59  
 <211> 786  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 59    |            |             |            |             |            |     |
| ggcacagcgg  | cacgagaaga | ctttggtggt  | taagagatta | atgtgttagc  | cagaacaatc | 60  |
| cattttctcta | ccmgtgtgta | gtccattttat | ctttaaagat | tttctatttg  | aataattttg | 120 |
| aaattacttt  | cttagttttc | ttcatttaaaa | actaagaaaa | tgctttgttt  | attatgaatt | 180 |
| gctattttctc | ttgattatta | ttcttgagga  | aagtctatca | gacgtaattc  | ttctgatttg | 240 |
| cttctaggct  | agaggaaaat | gtgaaagatg  | acaaatgaaa | atttcaaagg  | ttgtcagtag | 300 |
| tatgacttct  | tttatcggtt | gtcatttatca | caaatatatc | aacataggac  | ttttaaaaga | 360 |
| tattttgtac  | atattggggc | ttagtaggat  | tttgcattga | tttttttttt  | cttttatgcc | 420 |
| cagagagaaa  | gagcaaagaa | ataaccaagg  | gtgatgtact | cgtattgaag  | gttaccaaa  | 480 |
| taaggactgc  | ttttattatg | aactatagtc  | tatatcttaa | gtaaatcaat  | ttttctatta | 540 |
| tgtgtttttt  | gttctctgcg | gcaagatctc  | tgaactttat | gcagagggtt  | cttttaaaaa | 600 |
| aacaaagttg  | aattttttta | tttcttgga   | tatttttttt | cattgatattc | tcccaagtag | 660 |
| agcagattca  | aatctccttt | gtaccctatg  | tcttttttgt | tttgctatta  | gtcagattt  | 720 |
| ccgtttctac  | attttccttt | cctagaacca  | gtcaataaat | gacaaaaaaa  | aaaaaaaaaa | 780 |
| actcga      |            |             |            |             |            | 786 |

<210> 60  
 <211> 1175  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 60   |            |            |            |            |            |      |
| gagcgggccc | aggactccag | cgtgcccagg | tctggcatcc | tgcaattgct | gccctctgac | 60   |
| acctgggaag | atggccggcc | cgtggacctt | cacccttctc | tgtggtttgc | tggcagccac | 120  |
| cttgatccaa | gccaccctca | gtcccactgc | agttctcatc | ctcggcccaa | aagtcacaa  | 180  |
| agaaaagctg | acacaggagc | tgaaggacca | caacgccacc | agcatcctgc | agcagctgcc | 240  |
| gctgctcagt | gccatgcggg | aaaagccagc | cggaggcatc | cctgtgctgg | gcagcctggt | 300  |
| gaacaccgtc | ctgaagcaca | tcatctggct | gaaggtcatc | acagctaaca | tcctccagct | 360  |
| gcaggtgaag | ccctcgccca | atgaccagga | gctgctagtc | aagatcccc  | tggacatggt | 420  |
| ggctggattc | aacacgcccc | tggtaagac  | catcgtggag | ttccacatga | cgactgaggc | 480  |
| ccaagccacc | atccgcatgg | acaccagtgc | aagtggcccc | acccgcctgg | tcctcagtga | 540  |
| ctgtgccacc | agccatggga | gcctgcgcac | ccaactgctg | cataagctct | ccttcctggt | 600  |
| gaacgcctta | gctaagcagg | tcatgaacct | cctagtgcc  | tccatgccaa | ggtggcccaa | 660  |
| ctgatcgtgc | tggaaagtgt | tcctccagct | gaagccctcc | gccctttgtt | caccctgggc | 720  |
| atcgaagcca | gctcggagc  | tcagttttac | accaaagggt | accaacttat | actcaacttg | 780  |
| aataacatca | gctctgatcg | gatccagctg | atgaactctg | ggatggctg  | gttccaacct | 840  |
| gatgttctga | aaaacatcat | cactgagatc | atccactcca | tcctgctgcc | gaaccagaat | 900  |
| ggcaaattaa | gatctggggt | cccagtgtca | ttggtgaagg | ccttgggatt | cgaggcagct | 960  |
| gagtcctcac | tgaccaagga | tgccttgttg | cttactccag | cctccttgtg | gaaacccagc | 1020 |
| tctcctgtct | cccagtgaag | acttggtatg | cagccatcag | ggaaggctgg | gtcccagctg | 1080 |
| ggagtatggg | tgtgagctct | atagaccatc | cctytctgca | atcaataaac | acttgccctg | 1140 |
| gaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaa      |            |            | 1175 |

<210> 61  
 <211> 537  
 <212> DNA

<213> Homo sapiens

<400> 61

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtccggggga | cgtgcacggg | gccgccctcc | tggccctgaa | gctgcgccgg | cctccctgag | 60  |
| cgtttcgtcg | cggagggaag | tccactctcg | gggagagatg | ctgatgccgg | tccacttcct | 120 |
| gctgctcctg | ctgctgctcc | tggggggccc | caggacaggc | ctccccaca  | agttctacaa | 180 |
| agccaagccc | atcttcagct | gcctcaacac | cgccctgtct | gaggctgaga | agggccagtg | 240 |
| ggaggatgca | tccctgctga | gcaagaggag | cttccactac | ctgcgcagca | gagacgcctc | 300 |
| ttcgggagag | gaggaggagg | gcaaagagaa | aaagactttc | cccatctctg | gggccagggg | 360 |
| tggagccaga | ggcaccgggt | acagatacgt | gtcccaagca | cagcccaggg | gaaagccacg | 420 |
| ccaggacacg | gccaaagatc | cccaccgcac | caagttcacc | ctgtccctcg | acgtccccac | 480 |
| caacatcatg | aacctcctct | tcaacatcgc | caaggccaag | aacctgcgtg | cccaggc    | 537 |

<210> 62

<211> 843

<212> DNA

<213> Homo sapiens

<400> 62

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| ggcagctgtc | caccgatccc | ggccaccgcc | cccggccacc  | cccaccccg   | gagcccatgg | 60  |
| aggctccggg | accccgcgcc | ttgcggactg | cgctctgtgg  | cggtctgtgc  | tgcctcctcc | 120 |
| tatgtgccca | gctggctgtg | gctggtaaag | gagctcgagg  | ctttgggagg  | ggagccctga | 180 |
| tccgcctgaa | tatctggccg | gcggtccaag | gggcctgcaa  | agctggag    | gtctgtgagc | 240 |
| actgcgtgga | gggagacaga | gcgcgcaatc | tctccagctg  | catgtgggag  | cagtgcgggc | 300 |
| cagaggagcc | aggacactgt | gtggcccaat | ctgagggtgt  | caaggaaagt  | tgtccatct  | 360 |
| acaaccgctc | agaggcatgt | ccagctgctc | accaccaccc  | cacctatgaa  | ccgaagacag | 420 |
| tcacaacagg | gagcccccca | gtccctgagg | cccacagccc  | tggatttgac  | ggggccagct | 480 |
| ttatcgagag | tgtcgtgctg | gtgttgagcc | tacaggcggt  | ggctttcttt  | gtgctgcact | 540 |
| tcctcaaggc | caaggacagc | acctaccaga | cgctaattctg | accccttttg  | gcctggactc | 600 |
| catcctgagg | ggaaaggagg | atgcagaggg | tggccttg    | gcacccttgt  | gggtaagcgg | 660 |
| ggggcggggg | cgggaaaaac | tctggccgcc | agtttttg    | tcctgcgggc  | accaagcagg | 720 |
| ccaagtgttt | aatgcctgac | atctcctcct | gtcctggggc  | tggaaacctgc | agctgagaaa | 780 |
| atccctcaac | cacctcgtct | cctccatcgc | cctgctggg   | ccccccagcc  | tgacagtggg | 840 |
| ttg        |            |            |             |             |            | 843 |

<210> 63

<211> 849

<212> DNA

<213> Homo sapiens

<400> 63

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| gaattcggca  | cgagggtataa | tgccattctc  | ttcctctgtg  | aagtgcctgt  | tcggggtgtt  | 60  |
| gctacgtttt  | tgttttgttg  | tgttttctgt  | tgtagtgtt   | acatttttct  | tgtcgattcc  | 120 |
| taagaggact  | ttaggggtact | gagtcaccca  | tggatcatgtg | ttgcagagaa  | gtgtcacaga  | 180 |
| gtgaaaactg  | tcttttcctt  | gatactacct  | ttagattcat  | atgtgggaag  | accttcacta  | 240 |
| atcatgacta  | cataagtatt  | cacttttact  | ttcttaaggc  | ctttttgttt  | tcattctttt  | 300 |
| atagtaatat  | ctaagccatc  | tgggaattagt | ttgttgatta  | tgcaagaaaag | ggatcgaagt  | 360 |
| gctttttctg  | agtcattatc  | cacatgccga  | aacattttatt | gaatagccct  | ttccttattg  | 420 |
| atctgaaaac  | accttcttat  | aaaaccttgc  | attgggtttt  | ggacttgctg  | tgctttcagg  | 480 |
| agtcagaaga  | acattctttt  | gattatkgta  | gattacatw   | aataatacat  | ttkggcccggg | 540 |
| tgcgggtggc  | cacgtatgta  | atcctagcat  | tttgggagac  | tgaggcaggc  | ggaacacctg  | 600 |
| aggctcagggg | ttcaagacca  | gactggccaa  | catggcaaaa  | ccccgtctct  | acaaaaaaaa  | 660 |
| aaaaaaaaaa  | aattagctgg  | gcatgggtgtg | gcctgcctga  | aatcccagct  | actttgggag  | 720 |
| gctgaggcag  | gagaacctct  | tgagcctggg  | aggtagaggc  | tgcagtgagc  | cgagcttgca  | 780 |
| ccactgcact  | ccaacttggg  | taacagagtg  | agactccatc  | tcaaaaaaaaa | aaaaaaaaaaa | 840 |
| aaaactcga   |             |             |             |             |             | 849 |



<210> 64  
 <211> 2434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (73)..(73)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (75)..(75)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (103)..(103)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (130)..(130)  
 <223> n equals a,t,g, or c

<400> 64  
 ctgggggtan tncaagaacc ctctgtngga cttagatgtc aagctctttc ctttgggcag 60  
 cgtgtttcct ttntnagagt agtgtgctgt gtaaaactaaa ttngccggtt cgctttccat 120  
 ttcttgacan ttgagatgga atgccttgac cattgggtgct ctgacagag agtcatggag 180  
 tcattgccat ttctgtggtg cccttttgga atgtgatcct gttagtagag gttttctagc 240  
 ttctactaag atatttcttt ccctaaccat catacacttg gcatgtttca ttcccatctc 300  
 ctttccccctc accttaaagg agactacccc tttgccccat attgtcaacc taattttctc 360  
 tcgtactctc tctagtgaat gatgtgctac caagtatatg ccaggctgtg agaggattat 420  
 actgagtagt agaaagaagc taatttgaaa taaaaattat ttgtataatt aagaaagcag 480  
 attagatgca catggtcaac aggaagttga ctgtatgtct gctagttaga ttcaaaacat 540  
 cataaagatg atagcatgtc aatatattag cctagccatt atgtagcct ttgttaggtg 600  
 ggcagctttt ctgctttttc ccttcctctg tggtgacaac ggaggaaata tccaacagaa 660  
 atacgtctaa cagggaaatt gggatcatag tttatatgca tctgatttga aaggagtatt 720  
 gaggaagggt ttcatatatg atctatcttt ggattaaaaa gaacatttat gaaatcaagc 780  
 cttctaacac tagttataat tgagaagcaa cagtaactcc gtggacagca atcaagctta 840  
 aaattgtaaa taaatatggg gataattcag ttgttgcaaa aaaagggcag aattcagtag 900  
 aataaagtcc ttttctctta caggtattaa atgaggacag agaacctcag gtgttcttat 960

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| gctagtgcctt | gctgagtgca  | tactaagaaa | gcaattcaa   | atagatgtat  | acatctagag  | 1020 |
| agagtggat   | tagagattca  | gtgtatgtat | ttattttacat | gagaggaaac  | tggaatataa  | 1080 |
| tcccataaat  | tattggaata  | taatcccata | aattatcacc  | ttttatgact  | ggaaaatatt  | 1140 |
| tgccaatgaa  | gaaatggctt  | gtaggtat   | gtcttaagat  | ttttggctgt  | ttaataaaaa  | 1200 |
| tgtaacttta  | acggtttctt  | atagttgcct | ttataaagtg  | tattgtctaa  | aatatttttg  | 1260 |
| tatcatgtgc  | ctttgaaatt  | tgacagctga | tttgggtgtt  | ggattttctgc | ccagccattt  | 1320 |
| atcagtatta  | tcatttttatt | cagtagctgg | caggtgtatt  | agacaaacga  | gacttaggta  | 1380 |
| aggaatggaa  | cctttcctgt  | ggtttgactg | caatcacac   | cagaagactc  | cagtatccct  | 1440 |
| cattccagaa  | tgaggaaaaa  | gtattctaca | aagaacctaa  | tcacctctgt  | gaaatctatg  | 1500 |
| ggatggaaac  | agtgtggcct  | taggagtc   | atagttctctg | catggtggg   | aggatcatga  | 1560 |
| tggaatatgt  | gaatttctac  | ttctagaagt | tgtgaaatag  | gtcctgcact  | tttgacgaat  | 1620 |
| gtccttcttt  | aaacctggct  | tattccacag | ctgtagctga  | taacatgacc  | tggtggcttag | 1680 |
| ctgctctagc  | cctgggttct  | tgagacctc  | acactgcctg  | gcccctggcc  | atccacctaa  | 1740 |
| ggactgcctg  | ctttctggtc  | acatgtggac | cttgatacga  | ctaagcgggt  | acatatgtgg  | 1800 |
| ttgtgcaaaa  | gctttctgtt  | taatgcctag | tgttaccgat  | ttacatcttg  | gttttcagt   | 1860 |
| gcactatgtc  | taggaggcaa  | tatcctttta | aacagtgcct  | tggttaagat  | agatacttgt  | 1920 |
| gaatcaaaga  | tagcacagaa  | atgaactaag | tatatcccat  | ttggaattat  | attttgatac  | 1980 |
| tattttaa    | ggtttcacct  | gttaaagggc | caacagaact  | cttgggttta  | cttttgtat   | 2040 |
| tactgtacag  | aaaatttcaa  | gagtgtttga | gtgcttgtca  | tcagggtgtt  | tccttaataa  | 2100 |
| gtagggatat  | gatcatttac  | aggaattata | tatgaaaaa   | gtttttgaaa  | tgtatttttg  | 2160 |
| tgatgtgcta  | tgttgagggg  | aaaccaaata | tttatgattt  | taaaacattc  | gtatgaaaac  | 2220 |
| attgtacaat  | gtaatatgct  | caactttctc | aattttttgc  | taatttttct  | aagatacatt  | 2280 |
| aaaaatgttt  | tatatTTTTT  | tttaagtaaa | atggaccag   | taagaaaatt  | aaaaatacca  | 2340 |
| gaacataaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2400 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaa        |             |             | 2434 |

<210> 65  
 <211> 872  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (844)..(844)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (858)..(858)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 65   |            |            |            |            |            |     |
| ggggaagttc | ttcactgact | tgcatttgac | tccagatccc | tccatcctcc | cagagccttg | 60  |
| gcctcaaaaa | tgctgattct | agcatcatgg | aatgctgtc  | ctcaaagtgg | tctaaacggg | 120 |
| ttgctgcttc | acttgctcac | ttaatctccc | ttttcatagg | gctgttggtt | ttacttctgg | 180 |
| gaagttctgt | ttaccctgga | acagaaactc | tcttccctaa | aagttgatt  | tattgacca  | 240 |
| tgagggccag | agacacttag | gcataatttc | cctccagact | agaagcttct | gaggaggacc | 300 |
| tcttgagtct | gcaccctggc | tcctgctgt  | gctgagggcc | cccgtgttaa | cctcacgttg | 360 |
| tgccctcctc | gattcagagg | gccagtggtg | gttctgtcag | ccaggcagtg | gccccagctc | 420 |
| tacagaaatg | agttgtcatt | gcatactagg | gccagggtct | tcgtgcttgt | gtgtgttacg | 480 |
| tggaagtatg | tggaacacaa | gtgttcctgg | atggccacag | cctgcgaagg | aaactggggc | 540 |
| cagcagctgc | tctgtgtttt | cagccaacaa | tggctcctgc | ccactgccgc | tgcataacca | 600 |
| ccagaggcag | gcttctcttg | acacaggcct | gtcgttggag | cahtgcctg  | gcgagtccta | 660 |
| tttctattcc | cctgtgggtt | agggacaggc | agctgtacct | tcagtgtgtt | gctggggcag | 720 |
| gagaatcgct | tgaaccggga | ggcggagggt | gcagtgagcc | aaaattgcac | cactgcactg | 780 |
| cagtctgcag | gacagagaga | ggctmtatct | caaaaaaaaa | aaaaaaaaaa | actcgagggg | 840 |
| gggnccggga | cccaattngc | catataggaa | aa         |            |            | 872 |

<210> 66  
 <211> 1932  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1022)..(1022)  
 <223> n equals a,t,g, or c

<400> 66  
 cncggcgcg ctcggctcat gccccggggc gcggggcaca caggccggcc ggcagccgct 60  
 gggaaatagg cccccggggg cgggtggcggc ggcggggcca tggcgcgag accccggggc 120  
 ccggccgcct ccggggagga gttctccttc gtcagccgc tggtgaaata cctgctcttc 180  
 ttcttcaaca tgctcttctg ggtgatttcc atggtgatgg tggctgtggg tgtctacgct 240  
 cggctaataga agcatgcaga agcagcccta gctgcctgg cagtggacc tgccatcctg 300  
 ctgatcgtgg tgggtgtcct catgttctct ctcaccttct gtggctgcat tgggtccctc 360  
 cgcgagaaca tctgcctcct gcagacgttc tcccctgcc tcaccgctgt gttcctgctg 420  
 cagctggccg ctgggaccc gggcttcgtc ttctcagaca aggctcgagg gaaagtgagt 480  
 gagatcatca acaatgccat tgtgcactac cgagatgact tggatctgca gaacctcatt 540  
 gattttggcc agaaaaagt tagctgctgt ggagggattt cctacaagga ctggtctcag 600  
 aacatgtatt tcaactgctc agaagacaac ccagctcgag agcgtgctc tgtgccttac 660  
 tcctgttgct tgcctactcc tgaccaggca gtgatcaaca ctatgtgtgg ccaaggtatg 720  
 caggccttgg actacttgga agctagcaaa gtcactctaca ccaatggctg tattgacaag 780  
 ttggtcaact ggatacacag caacctattc ttacttggtg gtgtggctct aggcctggcc 840  
 atccccagc tgggtgggaat tctgctgtcc cagatcctag tgaatcagat caaagatcag 900  
 atcaagctac agctctacaa ccagcagcac cgggtgacc catggtactg agaatccatc 960  
 ctgcacctcc tcaccatgga aactggcaag cctcataaac gaacagcagt ggggtgctgaa 1020  
 ancagcacca aatggagatt tggattccag cccccagtg acagcccagt gggaagaagc 1080  
 aaactccaga tgggcagaag gcagggtgca cagggtggctc cagtctcagg aggatgcgcc 1140  
 tcctctcccc catcccagcc ctccagcattg tgccagagtg atacccttaa gtgtttgggt 1200  
 ttatgttttc agttttggtt gggaaacagc agttgcacag agagttgggg gtactgctgc 1260  
 tgccttttca ccgaggcact gccaccacca gctctascag ggatgctcct gagcttggcg 1320  
 gacatactta gatcctaacy tgccagtgag acctggctgt ggagagtagc actggcagcc 1380  
 ctgcctggac tccacttggc atgataccag ctccagaagg gaagggagtg gagcagcag 1440  
 tgaggagaga gcctgggggt cggctgggga cagccgtatg tgctaggtag gagtggaggg 1500  
 agatatgttt accaaatgcc tgtcctgcca tctcccagg tagtcagagt gagctacatc 1560  
 ctgccccgcc ttcatttcca tggaaacatg gcagctagga cacggggtac aacagcagcc 1620  
 aaattcttcc ccacctcc tacttcgaaa aaaagtttgg aaccttggtc cctatactct 1680  
 gcagtcagaa gtgggactga gccatacatg cccttgaatt cctccctgtc tggccctccc 1740  
 tctccagcaa gcagggtttt ctttaacttg gcagtggtgca gaggagaagt ggtaacaccc 1800  
 ccacccatt ccctgcacg ggagctcagt attcctacag ggtaagaggtaggaatctt 1860  
 ctgggacgag gggagccaga agtggcaata aaagcgtgtt gacctgaaa aaaaaaaaaa 1920  
 aagggcggcc gc 1932

<210> 67  
 <211> 1853  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1840)..(1840)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1851)..(1851)  
 <223> n equals a,t,g, or c

<400> 67  
 ctgcaggaat tcggcacgag cacctataaa gaatctcaac ccacttccca ctcaaaagca 60  
 ctgtgtatatt ctcatggcct gcctgggagc ccccatctcc gcctgctgt gctggctact 120  
 tctggcactt atagcccttg agatagtacc gccagcagct ccctgtgaag tgctaacacc 180  
 ccttcaaaagc agcaccaacc caattgtgaa caagctagga gtaaaagacg taaatgaatt 240  
 ggtcacccca atgcagggga tacagacttg ttttaatatata aaaaagaagt ggccttaacc 300  
 gtgcagggct tgcaggcctt tgtaggcatg ggagcatgct gtgatccctg gttctgtgct 360  
 aaacactcaa aagggtctctc tgactcaagt ggaggtgata aaccttttca atagtaacag 420  
 gagagagtgt gatatcaaag tgccmgaasy cctcacggac caacatttag cacagacatt 480  
 caaactgctg aaagawccaa wcagaactca actgaaaaa acagaccttt taagaaaagc 540  
 aatagatctt aatttgggtg caagatccct ggtttacctt ttgaagtcaa aatgttcaat 600  
 acatcacccg agcttgactt ttgagcactt ggcaagattg ttttttgcca cttgacacaa 660  
 gtatgatgtc cagctatgca aaatgactgt ttgatctgcc ttttcagtgt atttgtgtgg 720  
 cgatgtctgt aaaatgccag aagcctctta tgttattgct gctgctgcta ccagccagca 780  
 actgcagagg ccatgctgag gtgcctcctt gccaccagcc gttgggaaat gcctaccatg 840  
 ctgccccgga tgcacaagct caaaacgctg cagaagttac acaactgctc ccataatctg 900  
 gactctccaa aaccgtgatg ccacgaagga aggtcaagtt ttaaaatgtt aaagactgct 960  
 tgcctctgtt cctgagacta aacagtatac atactaacta cattgacaaa gaaatcctat 1020  
 ctgataatgt agcccgtga cgaattttga agcctcggtt accctaacca atatgtagct 1080  
 ttttaattgtc atcaaaactt ttacaaagat gttttgctat tgtttctata tacttcaaga 1140  
 atgttcattt ttacaaataa gttgaacaag acagcctaag ttagatgcac cgaagtacta 1200  
 gaaatatcgc tagcctctgt tctccagttt agctttcaaa accaaatgag ccatgtataa 1260  
 aggagttgag aaacttaatt ttttaaatgtt tcatattgcag agttttatat ccattaagtg 1320  
 cctttgaaag tttccagttg tgtgggctgc tgtctcacct cccaccaatt tctcctttct 1380  
 ccttatgggtg ctaaaacctc aaagctgagg agggctgcag gacccttagc agattcagtg 1440  
 tgtcacccctt gtccctgtgt cagcgaagc cttcctaaat gaaagacatc ggttacctgc 1500  
 ttatgggaag actcttcctg ctgacgggat cttgcattga aataaccatg tggaaagaca 1560  
 atgaatcgat taatgatgac atgtacaacc atattttaaag agcaatagtg tccgtgtgtc 1620  
 atgaaaaact tatttgtaaa cgttttatatg gtatgatttt gattttatgt atgttcataa 1680  
 atcctgcact gtatgatata tgtgagttaa aacattgggtg catgaattta ttttcaaagt 1740  
 ataaaacaca tcacttaaac attttatgtg tcaaataaaa tttgattatg taaaaaaaaa 1800  
 aaaaaaaaaa tcgagggggg gcccggrccc aattcgccan atggagatcc naa 1853

<210> 68  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 ggcacgagga ttctaggaca gggatggggg tgcagcactg atccaggacc cagaatgag 60  
 gcatcatgga ggggtccccg ggatggctgg tgctctgtgt gctggccata tcgctggcct 120  
 ctatggtgac cgaggacttg tgccgagcac cagaacggga gaaaggggag gcaggaagac 180  
 ctggcagacg ggggctggcca ggcctcaagg gggagcaagg ggagccgggg gccctggca 240  
 tccggacagg catccaaggc cttaaaggag accaggggga acctgggccc tctggaaacc 300  
 ccggcaaggt gggctaccca gggcccagcg gcccctcgag agcccgtagc atcccgggaa 360  
 ttaaaggcac caagggcagc ccaggaaaca tcaaggacca gccgaggcca gccttctccg 420  
 ccattcggcg gaacccccca atggggggca acgtggatcat cttcgacacg tcatcacca 480  
 accaggaaga accgtaccag aaccactccg gccgattcgt ctgcactgta cccggctact 540

|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| actacttcac | cttccaggtg  | ctgtcccagt | gggaaatctg | cctgtccatc  | gtctcctcct | 600  |
| caaggggcc  | ggtccgacgc  | tccctgggct | tctgtgacac | caccaacaag  | gggctcttcc | 660  |
| aggtggtgtc | agggggcatg  | gtgcttcagc | tgcagcaggg | tgaccagggtc | tgggttgaaa | 720  |
| aagaccccaa | aaagggtcac  | atttaccagg | gctctgaggc | cgacagcgtc  | ttcagcggct | 780  |
| tcctcatctt | cccattctgcc | tgagccaggg | aaggaccccc | tccccacccc  | acctctcttg | 840  |
| cttccatgct | ccgcctgtaa  | aatgggggcg | ctattgcttc | agctgtgaa   | gggagggggc | 900  |
| tggctctgag | agccccagga  | ctggctgccc | cgtgacacat | gctctaagaa  | gctcgtttct | 960  |
| tagacctctt | cctggaataa  | acatctgtgt | ctgtgtctgc | tgaaaaaaaa  | aaaaaaaaaa | 1020 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | a           |            | 1061 |

<210> 69  
 <211> 920  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 69    |             |             |             |             |             |     |
| ccccgggct   | gcaggaattc  | ggcacgagct  | ggagtccatg  | cccctaggat  | ggggtgaggg  | 60  |
| agtatcactc  | tgtgggggtt  | cacagcaccc  | tggatcctgc  | cttccagccc  | ctgccaaggt  | 120 |
| aaacagtgtc  | gcctgcctcc  | tgtggggaat  | gcaggatggg  | gcaatgcct   | ggcagcaggg  | 180 |
| tcttgccctca | gctgatgcaa  | ctgtggctgc  | tcctgtgtgc  | acagatcatg  | tgccctggaag | 240 |
| ccttctctgca | gcagggcagt  | gtcagaaaagt | ggaagagtgg  | tgtgagcagc  | ttccccgggg  | 300 |
| aaagcctggc  | tgagcaactg  | accttgagca  | agcactgcag  | atggcccttg  | ttcctgccgg  | 360 |
| gctcctccag  | ctgggagctc  | tcagcccctg  | gtaaatctctg | gcagtgaaag  | acacattagc  | 420 |
| acctccccct  | acaatgaggc  | acctatctag  | acaacttggc  | tgtccgggct  | taacctgcgt  | 480 |
| ggcaggggaag | gacgcctgcc  | cagccttagc  | ctctacgcaa  | tgggtggaggc | agggagggag  | 540 |
| agaaccacac  | agctccccctc | atttcccagc  | agcccccatg  | ggcctagtc   | aacaggggtgt | 600 |
| ggtcacaggc  | taaatgagca  | aagatgtgag  | ctaataatact | ggtaggtgtc  | atggggggctt | 660 |
| tcagagctgg  | gtaaggaggg  | aaagagatgg  | agatactggg  | tccccactcc  | ttaacgtgcc  | 720 |
| acctgccttc  | cctgtccttt  | accctccctc  | attctgctgg  | acctgaggaa  | aatgcaaggg  | 780 |
| aggctaggcc  | tagtggctca  | tgctgtcat   | cccaacactt  | tgggagactg  | aggtgggaga  | 840 |
| atcacttgag  | cctaggagtt  | tgagaccagc  | ctagggaaca  | tagtgagact  | ttcgtctcta  | 900 |
| caaaaaaaaa  | aaaaaaaaaa  |             |             |             |             | 920 |

<210> 70  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 70    |            |             |            |             |             |     |
| gctgccagga  | attccggcac | ggggaacagt  | gtaatatga  | agcaaatgct  | gtataacaac  | 60  |
| cacctggaag  | cccctcatgt | atctcttttt  | gaaaacactc | ctctctttct  | ccactctaata | 120 |
| gatgaccacc  | gccttgtctt | ttatggtaata | cactgttctt | tgggttttat  | tactgcattt  | 180 |
| attggctaata | atatgcatcc | ctagaaaaatg | tagttttgcc | tgctttttata | taaatggaat  | 240 |
| attactgcat  | gcagtctttt | gatttgtgat  | tgttttgctc | taaggcttgt  | aagggtcatc  | 300 |
| catgtttttgc | atatagtttg | tttattgtca  | ttgccataga | gtaaatcatt  | gtatgaatat  | 360 |
| actgcagttt  | atttactgtt | gacatatgtt  | tcagttgtt  | ttaactacta  | ggaaatgcta  | 420 |
| ctctgtacat  | tcttgtatat | gtaccttggg  | gcacatatgt | atgtttttct  | agagtatata  | 480 |
| cagtggcatg  | ggattgctga | attaaaaggt  | ttgtatatct | tatactagaa  | gataataaaa  | 540 |
| acttttctctg | atggattctg | ccaattcaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaactcg  | 600 |
| a           |            |             |            |             |             | 601 |

<210> 71  
 <211> 1356  
 <212> DNA  
 <213> Homo sapiens

<400> 71

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ccacgcgtcc gcttcacagt ttcaccttca ggctcaaagc tggctctgca ggggacatga      60
gaggcacacc gaagacccac ctctctggcct tctccctcctctgcctcctc tcaaaggtgc      120
gtacccagct gtgcccagaca ccatgtacct gccctggcc acctccccga tgcccgtgg      180
gagtaccctt ggtgctggat ggctgtggct gctgccgggt atgtgcacgg cggctggggg      240
agccctgcca ccaactccac gtctgcgacg ccagccaggg cctggtctgc cagcccgggg      300
caggacccgg tggacggggg gccctgtgcc tcttggcaga ggacgacagc agctgtgagg      360
tgaacggccg cctgtatcgg gaaggggaga ccttccagcc cactgcagc atccgctgcc      420
gctgcgagga cggcggttc acctgcgtgc cgctgtgcag cgaggatgtg cggctgccc      480
gctgggactg cccccacccc aggagggctg aggtctggg caagtgtgc cctgagtggg      540
tgtgcggcca aggaggggga ctggggaccc agccccttcc agccaagga cccagtttt      600
ctggccttgt ctcttcctg cccctgtgtg tcccctgccc agaattggagc acggcctggg      660
gaccctgctc gaccacctgt gggctgggca tggccacccg ggtgtccaac cagaaccgct      720
tctgccgact ggagaccag cgccgcctgt gcctgtccag gccctgccc cctccaggg      780
gtcgcagtcc aaaaaacagt gccttctaga gccgggctgg gaatggggac acggtgtcca      840
ccatcccccag ctggtggccc tgtgcctggg cctgggctg atggaagatg gtccgtgcc      900
aggcccttgg ctgcaggcaa cactttagc tgggtccacc atgcagaaca ccaatattaa      960
cacgtgcctt ggtctgtctg gatcccagg tatggcagag gtgcaagacc tagtcctctt     1020
tcctctaact cactgcctag gaggctggcc aaggtgtcca ggtcctcta gccactccc     1080
tgcctacaca cacagcctat atcaaacatg cacacggcg agctttctct ccgacttccc     1140
ctgggcaaga gatgggacaa gcagtcctt aatattgagg ctgcagcagg tgctgggctg     1200
gactggccat ttttctgggg gtaggatgaa gagaaggcac acagagattc tggatctcct     1260
gctgcctttt ctggagtttg taaaattgtt cctgaatata agcctatgag tgaaaaaaaa     1320
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa

```

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<210> 72
<211> 1411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1395)..(1395)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1397)..(1397)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1401)..(1401)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1408)..(1408)
<223> n equals a,t,g, or c

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<400> 72
ccggtccgga attcccggt cgacccacgc gtccggcgtg aaccaccgtg cctggccgga      60
agtcttttaa aaataaagt attctactct tctaagctta cagagaccag accaggtgaa      120
tgtaactggg gaaaaatcaag atggtacctc tctgcattat cccgccagac actgtatttt      180
atgcattcat gtctaggata cagtgtgaaa attaaaaagt ttagagggca gatgcaattg      240
tggcaagtga cctgccaaata aagcagggtc agctatgaa gctggcatag gtatatcctt      300
aatggtgctt tctccctggg cttgtctttt tgttgttttt tccccctata ttcagagctc      360
cttgagaagt gataaacacc tccagctttc taacatcctc cccacaccat ctcaccatat      420

```

|             |            |             |            |             |            |      |
|-------------|------------|-------------|------------|-------------|------------|------|
| ccatctccca  | gcatccatct | gcattcagct  | aagggcgagg | aactgaccta  | gtgcctgtgt | 480  |
| tgcagaccat  | ttctgaggtc | tccaccatcc  | aaggaggcac | agccgtcatt  | actgtcctcc | 540  |
| atgccttcag  | cagcccccc  | cacagctaag  | gtacatacca | ccccctctgc  | cgcgectcca | 600  |
| cccctggcac  | caaggtcttc | tgctgcttat  | gtctaaagg  | atcacctata  | tttaactgcc | 660  |
| tcagtgcact  | aacctctttc | ttctcatgtg  | agatgttta  | agatgaagga  | ggaatacmac | 720  |
| acatactcaa  | gcctcagcct | gtttagttgt  | tttactggg  | gctcgctttt  | ctgggacggg | 780  |
| atttattatc  | agactggcaa | gcctaactcc  | ataggtttac | aggaagtagg  | gatattttta | 840  |
| taaaacaatt  | gtgtcctccc | cacattttgc  | tatgttaata | tttgcttcta  | acaatttgca | 900  |
| gctgtttcac  | tttttcctca | tttgtctcta  | agttgaaggc | tttgttggag  | gggacagagc | 960  |
| acaggaacag  | ccttgacagt | ctgtaattat  | tgtacagata | ttttaatagc  | atataaataa | 1020 |
| gtatatccct  | tttattttga | aacaaaaatg  | atcagacact | gcctttttgtg | tgtttgctgc | 1080 |
| ctgtggcatc  | ctttttttaa | aagactgtta  | catattaaaa | tagtgtacat  | atataaatat | 1140 |
| tacctctttt  | gctgtacagt | tgtgatagag  | actgaagatt | ttattttttg  | tgtgcttttt | 1200 |
| ataagaaaaa  | aattaatata | ctaaagaatc  | ttgctgatgt | gattgtaatg  | tacctatgta | 1260 |
| acttattttac | ttttgaatgt | tcittctgtat | ctttaaacct | tttattaaat  | aaggttttaa | 1320 |
| aaattcaaaa  | aaaaaaaaaa | ggsggccsct  | ytaraggatc | caascctgcg  |            | 1380 |
| tacgcgtgca  | acganancag | ngtcgagngg  | t          |             |            | 1411 |

<210> 73

<211> 2229

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2227)..(2227)

<223> n equals a,t,g, or c

<400> 73

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| ggcagtatat  | aaaattttgtg | gggcttacag | cctcgcccac | ctgcttcact | tctgcagccc  | 60   |
| acagcatcat  | attctcgaaa  | agataaagac | caaaggaagc | aacaggcaat | gtggcgagtg  | 120  |
| ccctctgatt  | taaagatgct  | aaaaagactc | aaaactcaaa | tggccgaagt | tcatgtatg   | 180  |
| aaaactgatg  | taaagaatac  | actttcagaa | ataaaaagca | gcagtgtctg | ttctggagac  | 240  |
| atgcagacaa  | gccttttttc  | tgctgaccag | gcagctctgg | ctgcatgtgg | aactgaaaac  | 300  |
| tctggcagat  | tgcaggattt  | gggaatggaa | ctcctggcaa | agtcatcagt | tgccaattgt  | 360  |
| tacatacgaa  | actccacaaa  | taagaagagt | aattcgccca | agccagctcg | atccagtgtg  | 420  |
| gcaggtagtc  | tatcacttcg  | aagagcagtg | gaccctggag | aaaatagtcg | ttcaaaggga  | 480  |
| gactgtcaga  | ctctgtctga  | aggctcccca | ggaagctctc | agtctgggag | caggcacagt  | 540  |
| tctccccgag  | ccttgataca  | tggcagtatc | ggtgatattc | tgccaaaac  | tgaagaccgg  | 600  |
| cagtgtaaag  | ctttggattc  | agatgctgtt | gtgggtgcag | ttttcagtgg | cttgccctgcg | 660  |
| gttgagaaaa  | ggaggaaaat  | ggtcaccttg | ggggctaatg | ctaaaggagg | tcatctggaa  | 720  |
| ggactgcaga  | tgactgattt  | ggaaaataat | tctgaaactg | gagagttaca | gcctgtacta  | 780  |
| cctgaaggag  | cttcagctgc  | ccctgaagaa | ggaatgagta | gcgacagtga | cattgaatgt  | 840  |
| gacactgaga  | atgaggagca  | ggaagagcat | accagtgtgg | gcgggtttca | cgactccttc  | 900  |
| atgggtcatg  | cacagccccc  | ggatgaagat | acacattcca | gttttctctg | tggatgaacaa | 960  |
| ataggccctg  | aagatctcag  | cttcaatata | gatgaaaata | gtgaaggta  | attgccaaat  | 1020 |
| caagagaact  | gacttgcaag  | ctaccttgac | cctgaatttt | gctgtagtgt | gtgctcaaat  | 1080 |
| ttgtcatcag  | tcagataatc  | agatttggtc | ttattttctc | attatctcga | cctgaaatag  | 1140 |
| taattttggaa | actgttggaa  | ggtggcacag | tttagtctaa | gacagcagta | gtacatggga  | 1200 |
| aaaacagtat  | gggaagagtt  | ctttgtaatg | taaggaaata | acaatgtagt | tctctattaa  | 1260 |
| tttagcaaat  | ttgtacattc  | acaaaaggca | gtttgtctac | tacagcagaa | ggctgggttaa | 1320 |
| ctgccagaaa  | atgtacctcc  | aggccctgca | tgcctgcagt | aaccgcgccg | gcattgggtgc | 1380 |
| tctactgtct  | ttggctagag  | cttagtttgt | tttaaaaat  | catctttata | tttgggttt   | 1440 |
| taattacagt  | tccattagtg  | cctgtagatt | agtgaacaga | aaattgcttt | ggaagagatt  | 1500 |
| ctgccctgta  | gacactatgt  | gaataactga | agtaacacta | gactgaatct | ccttttttga  | 1560 |
| gtatgtatct  | tctctcactt  | gttcaagtac | aggcacactg | ttcaaccgca | tggatatcttt | 1620 |
| ctgtttgtgtg | acttctacaa  | atgtaatttt | aaatgaaatt | aagttaacat | ggattcatta  | 1680 |

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| cggttcctggc | cctgtagaca | cgtgtaagat | tatttataat | tcttttcattt | ttttctgcct  | 1740 |
| cttactatac  | gactgtagtg | caacaaatat | tttaaagccc | cctttttcttc | tttattttca  | 1800 |
| ttagttgtac  | attgatttca | gtgtcaacac | attaaagat  | tcattcatgt  | tgacacagtgg | 1860 |
| cttacaatgaa | cgtgaaactg | tgatataagg | ttttctttca | tactcataat  | tagcccaaaa  | 1920 |
| cagttgccaa  | actttgccat | tgtgctcctg | catttgtgtt | tgagctgcta  | tatatattgtg | 1980 |
| gaaattacac  | tgaaagttga | ctaagagact | attgaaaaag | catgaataat  | taaataatata | 2040 |
| tgtgagagac  | atctcatctg | ctgtatttta | cttagtgaat | attgttcact  | cttccgtgtc  | 2100 |
| tgatgtcttg  | ctgaatgctg | tgactcatag | tttacttttg | ttcaaaatag  | tttgcaacttt | 2160 |
| ttgttaataa  | aatcaacttg | agaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 2220 |
| aaaaaancg   |            |            |            |             |             | 2229 |

<210> 74  
 <211> 1554  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (695)..(695)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (874)..(874)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1190)..(1190)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| <400> 74   |            |             |            |            |             |      |
| gctttaatag | tgtacactta | cacatctgga  | aggaagagag | ttccatatgg | cagggatgat  | 60   |
| tgggacagga | gggatctttt | gataactttg  | tgtgagcatg | aaaatcgaat | ggggaaggga  | 120  |
| gagctgtgaa | aaaaaaaaat | tatctctttt  | tttttgcttc | tggaaccaca | gctttttggt  | 180  |
| cagccgtctt | gtgatttggc | tgggcctggt  | ttgtgggggt | cgctctctga | gttgggtagc  | 240  |
| tcttgagaaa | gattatctgg | gaactcccat  | ccttatccca | aacatacacc | aaacctgccc  | 300  |
| ccatccacca | ttatgggaat | tagtaccaga  | gcaccccttg | agattagtc  | tcattttctc  | 360  |
| tctttgtgag | cacacacaca | tcaggtagag  | ttccagaaac | ccagctttag | gacactgttc  | 420  |
| acatatcaca | ggaggagcaa | ggacatgaat  | acaagagagc | tctttcctga | ccagcagtgg  | 480  |
| gargtggttg | tactatctat | ttawttgttt  | attwatttat | ttattttttg | agatggartc  | 540  |
| tccttctgtc | accagggctg | gagtgacagt  | gcacgatctc | ggctcactgc | aatctctgcc  | 600  |
| tcctgggttc | aagcagtcct | cctgcctcag  | ccccccaagt | agctgsgatt | acaggctgca  | 660  |
| ccaccatgcc | ccgctaattt | ttgtattttt  | agtanagatg | gggtttcacc | atgttgcca   | 720  |
| ggctggtctg | taactcctga | mctcaggtag  | tccacctgcc | tggcctccc  | aagggtgctgg | 780  |
| gattacaggt | gtgagccacc | gtgcccggsc  | tggttccact | atttattaaa | atgtatatat  | 840  |
| gtgttttyca | ctttttttgt | aggcatttta  | ttgntaataa | tttggaattt | aaaaaaattt  | 900  |
| ctccacaagc | ttattttttg | tgagagacaag | gtctccctgt | gttgccctag | ctggctctga  | 960  |
| attcctgggc | taagtgattg | gtctgccttg  | gcctctcaaa | gtgctgggga | ttacaggcat  | 1020 |
| aagtcaccat | gccctgtttg | scagcaagkt  | ttawackgct | ctttttggta | gggawwtkct  | 1080 |
| maggtwcagt | gatagagaac | atgkagttgt  | ggtgggawac | agtggctyat | gactgtatcc  | 1140 |
| gcactttggg | aggctgaggc | aggaggattg  | cttgaggtg  | agagttgagn | acaggcctgg  | 1200 |
| gcaacatagc | aagacacctt | ctctaaaaat  | aaaaaaatta | gctggatgtg | gtgtcatgta  | 1260 |
| cctgtagtcc | cagttgcttg | ggaggctgag  | gcaggaggat | cacttgagcc | tggtgttca   | 1320 |
| agataggcct | ggtcaacaca | gcaagacccc  | ttctctaaaa | atgaaaataa | aaaaattagc  | 1380 |
| tggttgtggt | ggcatgtacc | tgtagtccca  | gttacttggg | aggctgagac | aggaggattg  | 1440 |
| cttgagccag | gggtttgagg | ctgcagttag  | ctatgactgc | tcccctgcac | cccaggctgg  | 1500 |



gtgacagagt gagacccagt ctctaaaata aaaaaaaaaa aaaaaaaact cgta 1554

<210> 75

<211> 2083

<212> DNA

<213> Homo sapiens

<400> 75

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| ggcacgagcg | acctttgtga | gcgagctgga | ggcggccaa  | agaacttaa  | gcgaggccct | 60   |
| gggggacaac | gtgaaacaat | actgggctaa | cctaaagctg | tggttcaagc | agaagatcag | 120  |
| caaagaggag | tttgaccttg | aagctcatag | acttctcaca | caggataatg | tccattctca | 180  |
| caatgatttc | ctcctggcca | ttctcacgcg | ttgtcagatt | ttggtttcta | caccagatgg | 240  |
| tgctggatct | ttgccttggc | caggggggtc | cgagcaaaa  | cctggaaaac | ccaagggaaa | 300  |
| gaaaaagctt | tcttctgttc | gtcagaaatt | tgatcataga | ttccagcctc | aaaatcctct | 360  |
| ctcaggagcc | cagcaatttg | tggcaaagga | tccaagat   | gatgacgact | tgaaactttg | 420  |
| ttcccacaca | atgatgcttc | ccactcgagg | ccagcttgaa | gggagaatga | tagtgactgc | 480  |
| ttatgagcat | gggctggaca | atgtcaccga | ggaggctgtt | tcagctgttg | tctatgctgt | 540  |
| ggagaatcac | cttaaagata | tactgacgtc | agtgtgtgca | agaaggaaa  | cttatcggtt | 600  |
| acgagatggt | cattttaaat | atgccttttg | cagtaacgtg | accccgagc  | catacctgaa | 660  |
| gaatagtgtg | gtagcttaca | acaacttaat | agaaagccct | ccagctttta | ctgctccctg | 720  |
| tgtgtgtcag | aatccagctt | ctcaccacc  | ccctgatgat | gctgagcagc | aggctgcact | 780  |
| cctgctggca | tgctccggag | acactctacc | tgcactcttg | cctccgggtg | acatgtacga | 840  |
| tctttttgaa | gctttgcagg | tgcacaggga | agtcacccct | acacatactg | tctatgctct | 900  |
| taacattgaa | aggatcatca | cgaaactctg | gcattccaat | catgaagagc | tgcagcaaga | 960  |
| caaagtccac | cgccagcgct | tggcagccaa | ggaggggctt | ttgctgtgct | aaattgagt  | 1020 |
| ttgagggtgt | gggaccctca | ccaaattcat | tgattactga | aaattgaaat | ttttttgggt | 1080 |
| ccacatttca | aggctgaagt | gtgtagtgtg | tatataacct | ttcctatgga | aatgtgacat | 1140 |
| tgagtacatt | ttgtgttgct | gttgtgaagc | cattaatata | aatcctttgt | aatgacccat | 1200 |
| atctctatat | gtatgtgttc | aggttgtgg  | gagcaggcac | taatgaaatc | ctgtgcctgg | 1260 |
| aatggagata | tttaggtacc | tgaggcttag | tgctctgtgg | tctgcatgta | agatagatga | 1320 |
| catcctagaa | caaagaagct | gttttaactt | aatccccctg | atcagcagga | tatctgtgtg | 1380 |
| ttcagtgcac | tcatacatte | tgtatctaga | agtctaaaat | ttctgccttt | ctctaaaga  | 1440 |
| atgtgttctt | gcattttggg | tgaaataacc | tacacagtgt | taaaaatcag | atacctcctt | 1500 |
| tagtgaccag | ttcaaatttt | aatagcgata | ggtagccctt | gagaaattta | tcactataac | 1560 |
| ttcacaggaa | atatgacttg | gaagtgcctt | gtgtactaaa | caaaataaag | cccctctttg | 1620 |
| catttaaaac | caaagtcaaa | acaaaactct | tgtaatgcaa | ttaattaaat | tcatgtcttc | 1680 |
| ccatgactca | agttttgtta | aatatgccca | aaaactttga | ttggcagttt | cttcggttaa | 1740 |
| ttattcctat | agaatgtatt | ttaagaaatc | tatacaaaat | ggatatatgc | ttggtaattc | 1800 |
| tccagtttct | aggaggtacc | tatttctacc | gtttcaagt  | atgaaggaa  | aataatttac | 1860 |
| attcgatagt | gttactgata | acaaacctac | ttaagagata | tggtgctttt | tacttaaggg | 1920 |
| atagtgttga | tagataaatt | agaatgtata | gatagggttg | tgaaagtcta | aataatggct | 1980 |
| gtatagatat | gtatatatgg | ttcacacatc | tggatctgtg | tatttgattt | tgtactttaa | 2040 |
| atgtgacaaa | taaacctttt | gggagaaaaa | aaaaaaaaaa | aaa        |            | 2083 |

<210> 76

<211> 427

<212> DNA

<213> Homo sapiens

<400> 76

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgaggt | catttcagcc | ttatgaattg | cccagaataa | gctagatcac | ctttaaggcc | 60  |
| atgtggttag | ggaaacttgg | gcacagaatt | tacattttta | acttgggtga | aagatgggtt | 120 |
| taaggtaaga | atcaaatagg | agaaaacctt | agctgttcca | gcgcccatg  | tttaaaagaa | 180 |
| tgtgtctctt | tttccaagta | tttctgccgc | ttgcatgcac | tgagcttctt | tggaaggag  | 240 |
| caccatgcag | gcataatttc | cagacaggac | cggatttgct | cgttactcag | aggtgtgtgc | 300 |
| attccttgct | tttaggatat | ttaattagca | tcttttaata | gtgatattac | ggtgtcttaa | 360 |
| aagtttatgc | atttgaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 420 |

aaaaaaa

427

<210> 77  
<211> 863  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (298)..(298)  
<223> n equals a,t,g, or c

<400> 77  
gggcagnagt tccatttctg ccgtgggtccc agcagcgtcg ctgtgggtct ggccctgggtt 60  
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ctgcctccct gtctcgctcc gtggacattt ctgggagggtc aggccgtggc cacctggccc 180  
cctgttcagg tctgaggctc ccacctgctt aggttcggga agctcaggag tgaggccatg 240  
ccctcctcag gacatcccat ccaagccagc catgtccgtt gatggccgc tgcccggnaa 300  
agtccttttc cttcttgtaa ctgagaagaa cttgccttga gccacgtcaa gtcccgtccg 360  
tcgcagccac tgcccacaag cgtgagtcgt ctgtgagcca gcggctccat ggcaggcat 420  
cccagcgcca ttctgcctt cacacacact tgctgccgtt tccctgtgct gggggctgtg 480  
cargtctgcc tcggtgtgga cttttctctt aggaaagagc cccaggctcg cagagcacgg 540  
tggctcatgc ctgtaatccc agcactttgg gaggtgagg cgggcagatc acgaggccaa 600  
gagatcaaga caatcctggc caacatggtg aaatcccgtc tctacttttt aagtatttta 660  
tacttaaaat ttttgtatct tatacaaaaa ttagcgggt tgggtggcaga tgcctgtagt 720  
cccagctact cgggaggctg aggcaggaaa atcacttgaa cctgagaggc ggagattgca 780  
gtgagccaag atggcgtcca ctgcattcca gcctgggcga cagagcaaga ctctatctca 840  
aaaaaaaaa aaaaaaactc gta 863

<210> 78  
<211> 1276  
<212> DNA  
<213> Homo sapiens

<400> 78  
gtgagtgtgt ggcactggtg gcctggagcc aaatttagct tgggtgagag ttgacaatgg 60  
tagttttcct tcctcaagcc cctctgtgcc cctagagcac cctggctgtg gctgcctcct 120  
tcattccaaga gcagagtcca tgttgggcca ggagactta gatccatgtc ctggtgctgc 180  
ctctggcttt gtctttcctc agtgggcagg actgggtctg ctggtccatc tttacccttc 240  
tctgagctat gcagccttg cctgctgcgt ctccggcctg tattctctcc ccttactca 300  
ggccctggga aaccagccca gtttctkgca ggagaggcag aggaggtcaa tgcctttgct 360  
ctgggcttcc tgagcaccag cagtgggtgc tctggagaag atgaagtaga gcccttacac 420  
gatggagtgt aagaggcaga gaaaaagatg gaagaagaag gtgtgagtgt gagtgaatg 480  
gaggcaacag gagcacaagg acccagcagg gtagaagagg ctgagggaca cacagagggtg 540  
acagaagcag agggatccca ggggactgct gatctgacg ggccaggagc atcttcaggg 600  
gatgaggatg cctctggcag ggcagcaagt ccagagtcgg cctccagcac ccctgagtct 660  
ctccaggcca ggcgacatca tcagtttctt gagccagccc cagcgcctgg tgctgcagtc 720  
ttatcttcag agcctgcaga gcctctgttg gtcaggcatc ccctaggcc cggaccacc 780  
ggccccaggc accggcaaga tccccacaag gctggactga gccactatgt gaaactcttt 840  
agcttctatg ccaagatgcc catggagagg aaggctcttg agatggtgga gaagtgccta 900  
gataaatatt tccagcatct ttgtgatgat ctggagggtat ttgctgctca tgctggccgc 960  
aagactgtga agccagagga cctggagdg ctgatgcggc ggcagggcct ggtcactgac 1020

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| caagtctcac  | tgcacgtgct | agtggagcgg | cacctgcccc | tggagtaccg | gcagctgctc | 1080 |
| atccccctgtg | catacagtgg | caactctgtc | ttccctgccc | agtagtggcc | aggcttcaac | 1140 |
| actttccctg  | ttccacctgg | ggactcttgc | ccccacatat | ttctccaggt | ctcctccca  | 1200 |
| cccccccagc  | atcaataaag | tgtcataaac | agaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1260 |
| attggggggg  | ggcccc     |            |            |            |            | 1276 |

<210> 79  
 <211> 2494  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| <400> 79    |            |             |            |             |             |      |
| ggcacgagga  | gatgtttaag | gattacccc   | cagccataaa | accatcctac  | gatgtgctgc  | 60   |
| tgctgctgct  | gctgctagt  | ctcctgctgc  | aggccggcct | caacacgggc  | accgccatcc  | 120  |
| agtgcgtgcg  | cttcaaggct | agtgcgaagg  | tgcagggtgc | atcctggggac | accagaaacg  | 180  |
| gccccgagga  | gcgcctggct | ggggaggtgg  | ccaggagccc | cctgaaggag  | ttcgacaagg  | 240  |
| agaaagcctg  | gagagccgtc | gtgggtgcaa  | tggcccagtg | acccccagac  | gcggaaaccg  | 300  |
| ggtggcagcg  | cccagcctgg | ccccaaagcat | ggaaacgcac | aacccctaata | cgccctgagc  | 360  |
| tactgcttct  | aacacctctt | ttcccttgct  | tgagggcaaa | ccaggctgca  | ggtgggggtt  | 420  |
| tcacttccta  | gggtagttta | attttaaaat  | aggccaatgt | tggctagtct  | gtgcctcagt  | 480  |
| gagatcagtc  | agctccgagt | ggctcccgtg  | tcgtaacagc | aggagcatgg  | ccgcaacttc  | 540  |
| ccaggccagag | gaagggcccc | cggtctggcc  | tcttgagagc | cccaccctg   | aactggcccc  | 600  |
| agctcctctt  | cctgcctctc | tcattggttg  | ggctggagtg | ggctctcttg  | accgaccag   | 660  |
| actgtgggtc  | cctgcgtctc | ctgcccactc  | tgaccgggct | tcctccctcc  | acgcttaggg  | 720  |
| tctgtcccgg  | gtactcagtc | agcccagtg   | gatcttacc  | acttccctgc  | aaggtgcacc  | 780  |
| tgccccaggc  | tcaggctgcc | cagcggctct  | tcctggacag | tgagagcagg  | gctgggcgcc  | 840  |
| tctgtcctgg  | cccgggagc  | gcagggggccc | ctcctccaga | gcctgggcgc  | aagcgacaca  | 900  |
| ggctgccgct  | gctctcccag | gtgaaatcca  | caccagtcca | cgccgggtcg  | cctgcctgtg  | 960  |
| ctccctactt  | agacccagtc | attctagagg  | gatccaccgc | cacactggcc  | ggcccacgtc  | 1020 |
| ctgggtgctg  | tcattgccag | cttggagtg   | cacgtggccg | ctgcccactg  | cccggggcact | 1080 |
| gtcatgccc   | gcttgagtg  | ccacatggcc  | gctgcccacg | tcccgggcac  | tgtcacgccc  | 1140 |
| agcttgaggt  | gccacgtggc | cgctgctgtg  | acaggcagtg | ttcttggggg  | tggggctgca  | 1200 |
| tccaaggctt  | tgtaaaccgg | ctggaccacg  | tctccctggc | cccagtgacc  | gggggaagct  | 1260 |
| gagccctcc   | ctcctgtgtt | tgctccatt   | actcaaaatg | caggacagat  | caggtcagag  | 1320 |
| cccaggaatt  | ctcacagggt | cacccagcgc  | cctctaactc | ctagcaagta  | ctttgtcttg  | 1380 |
| atcctcactg  | agaaggcccc | agggcagcgg  | tcttctccat | ctccgctgtt  | ttggggctct  | 1440 |
| agggtagacg  | ccaggcggtc | actgcccacc  | tgccaggctg | caggacagt   | tgggtgtgag  | 1500 |
| aataacactg  | gctttgggta | gtgccatggc  | caggagtggg | tttccctgcg  | tctcctcgtc  | 1560 |
| ccgagggcgc  | ctgggtcctc | ccagctgacg  | gcagtaaata | cacagtgaat  | tggggcgact  | 1620 |
| gtgaaactgg  | aatgctgtta | ctttgataat  | tactttccag | cagggtgttt  | ccttcacaat  | 1680 |
| ggttttgttt  | ctttccttct | gatctgagaa  | gacatgaacg | ttttctcttc  | accgctgtgg  | 1740 |
| ggtgtattga  | ctgggtcccc | atgggtgctg  | ggaaaggccc | ggagatgcat  | ctgtggcctg  | 1800 |
| gggccatcaa  | gatcaaagaa | ccaggaggcc  | tgggagatgc | agctggatgg  | ggcggcctgc  | 1860 |
| agaccctgcc  | agggggtttg | aggaccctcc  | caggtttcc  | actgcggaac  | aggagtgaat  | 1920 |
| ctggtgcca   | agataccttc | atggtgttca  | tgacaagtgg | aatcattatt  | ttcaaccatt  | 1980 |
| gaagggggat  | gcaggcaaga | caccttccca  | gctgtccta  | gaggggacaa  | gccaggccct  | 2040 |
| ctctgcagtc  | ctcggcagct | ccggaaggac  | acagtacagg | gccgggcaaa  | cactttggcc  | 2100 |
| acagcccaaa  | acaagcgcca | ccgtgggaga  | ggagaggctg | ctgtcactgg  | taccggatgc  | 2160 |
| agacccacc   | ctgtctgcag | gccaccccca  | cctccctgca | gctttgaggc  | tggcggggctc | 2220 |
| tgctcctggg  | aatgggggtg | gagccacagg  | gacgaccggg | ggcgggctga  | tgtcttcttg  | 2280 |
| ggggcagacc  | agagagctca | agtttcagag  | tagaattag  | gcacttggag  | cgtttttgct  | 2340 |
| ggcttgcaat  | ttcttatatt | cttatatttag | agcgcttaaa | aaaatccgga  | aaaatgggggt | 2400 |
| ttaaaagaac  | tgtctctttc | agtcctacatt | tttgtttaat | acgcttgagc  | aataaacgct  | 2460 |
| tacttgcaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaa       |             |             | 2520 |

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 <211> 1630

<212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (527)..(527)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (546)..(546)  
 <223> n equals a,t,g, or c

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 agataaagtt cctcatcgga tatcttctct ccttctattg ggtacctttt tattgtctta 120  
 atgggggtct tttaatgacc agaagtctct agttttaaaa tagtccagtt tatccatttt 180  
 taaattgtta gtgctatttg tgtcctgctt gagagatttt tgcctactgc aagggtcaca 240  
 agatgttttc ctctaaaagc cttttggttt tgcccttttg ttttagatct gcagctcatc 300  
 tggaaattgag tgtgtggtgt gtgtgtggtg tgaggtaggg gtcctttttt tcatatggat 360  
 atccaattga ccagaacag tgtattgaaa aaaaaaatct gtcttagtca atttgactg 420  
 ccgtaacaaa ataccataac ctgggtggct tagactacag aaatgtagcg ctcacagytc 480  
 tggaggctgg aaggccagga tcaagacacc agcagattcg gtgtctngtg aggaccact 540  
 ttgtgnttca tagatgtcac cttcttgctg tgtcccagtg gtgraagggg caaactagct 600  
 cccttaaacc tctttttata agatccctaa aacctttaat gagggctcca ccbaatgat 660  
 ctaatcacct ctcaatacct tatcttgggg gttaagattt gaacagagga atttggggga 720  
 gacatagaca tttggagcat agcatcttct ttctctcagt gcacagcagt gctgccttca 780  
 tcatcagtcg ggtgtctgta ggtgtgtggc tatttctgga cttaggcactc tgtcctactt 840  
 gttgatttct ctgccttata ccaatgccac accatcttaa ttattgtaac catcttaatt 900  
 atttataaaa agtctttttt ttttttttga tacagtctca ctctgtcccc caggctggag 960  
 tgcagaggta cagtattggc tcaactgcaac ctctgtcccc aggccttaagc aattctcatg 1020  
 cctcagcctc ctgagtagct gggattacat gtgcaccacc acacttggc ttctttcttt 1080  
 tctttccaay ccattkgttt tttatttctt tccctkgctt tatkgcactg gctaagattt 1140  
 ccagtgtgta ataggagtga tgacagtggg cacccttgct tttctcccaa cctcagaggg 1200  
 aaaagtatcc aatgcatttg tagatattct ttatcagatt agcttccttt ctagcggctt 1260  
 gtgtctttgc attgtttttc atgagcaagt gttgaacttt ttcactgagt tttccaaata 1320  
 ctttttccat tgagtttttt tactttaacc gtcattattg caaaagtctg catttggtat 1380  
 ttctctccaa attgctggga ttataggcat tagccactgc acccagccag actttataga 1440  
 aaatcttgat atctggtcat ggaagtcccc tagcttgggt attttttttt ggtaccgctt 1500  
 tgtctatttt cggccctttc catttccatg taacttttag gatcagcttg tcagttccta 1560  
 ccaaaaaaaaa aaaaaaaaaa actcgagggg ggccccgtac ccaaatcgcc gggtagtgat 1620  
 cgtaacaatc 1630

<210> 81  
 <211> 1860  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (912)..(912)  
 <223> n equals a,t,g, or c

<400> 81  
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 ctgactgagt gcctgacggt ggacccccctc agtgccagcg tctggaggca gctgtaccct 180

|             |            |             |             |            |             |      |
|-------------|------------|-------------|-------------|------------|-------------|------|
| aagcacctgt  | cacagtcacg | ccttctgctg  | kagcacttgc  | tcagctcctg | ggagcagatt  | 240  |
| cccaagaagg  | tacagaagtc | tttgcaagaa  | accattcagt  | ccctcaagct | taccaaccag  | 300  |
| gagctgctga  | ggaagggtag | cagtaacaac  | caggatgtcg  | tcacctgtga | catggcctgc  | 360  |
| aagggcctgt  | tcagcagagt | tcagggctct  | cggctgccct  | ggacgcggct | cctcctgttg  | 420  |
| ctgctgggtct | tcgctgtagg | cttcctgtgc  | catgacctgc  | cggtcacaca | gtccttcca   | 480  |
| ggctggctgg  | gggagacact | gccgctctgg  | ggctccacc   | tgctcaccgt | ggtgcggccc  | 540  |
| agcttgacgc  | tgccctgggc | tcacaccaat  | gccacagtca  | gcttcctttc | tgccactgt   | 600  |
| gcctctcacc  | ttgcgtgggt | tggtgacagt  | ctcaccagtc  | tctctcagag | gtacacagtc  | 660  |
| cagctccccg  | attccgtgaa | tcagctactc  | cgctatctga  | gagagctgcc | cctgcttttc  | 720  |
| caccagaatg  | tgctgctgcc | actgtggcac  | ctcttgcttg  | aggccctggc | ctgggccag   | 780  |
| gagcactgcc  | atgaggcatg | cagaggtgag  | gtgacctggg  | actgcatgaa | gacacagctc  | 840  |
| agtgaggctg  | tccactggac | ctggctttgc  | tacaggacat  | tacagtggct | ttcttggtact | 900  |
| gggcacttgc  | cntgatatcc | cagcagtagg  | ccctgccttc  | ctggccactg | atttctgcat  | 960  |
| gggtagacca  | tccaagactg | cagcgggtag  | aagggtggcag | ttcttcatgg | gagtcttttt  | 1020 |
| aacttgggtg  | ctgagttctc | tccataggca  | gtggccagtt  | gcctccacct | cagttcttcc  | 1080 |
| atctttgggt  | gggacagggc | ccagcagcat  | ctcagctctc  | taccacaat  | tccactgaac  | 1140 |
| acttttctgg  | ccctactgca | catggccccc  | agcctccatc  | cttggtgctg | tagcctctca  | 1200 |
| caactccgcc  | cttgccctct | gccttccact  | tccttccatc  | tcatttctaa | accccaaaaca | 1260 |
| gctcatctct  | aaaaagatag | aactcccagc  | aggtggcttc  | tgtgttcttc | tgacaaatga  | 1320 |
| ttctgtcttc  | tccagacttt | agcagcctcc  | tgttcccatt  | cttggtcaca | gctctagcca  | 1380 |
| cagcagaagg  | aaaggggctt | ccagaagaat  | atagcaccgc  | attgggaaac | agcagcctca  | 1440 |
| cctccacctg  | aagcctgggt | gtggctgtca  | gtggacatgg  | ggagctggat | ggaaatgcct  | 1500 |
| ctcacttcaa  | aatgccacgc | ctgccccaaa  | tgccctctaa  | ccctccctg  | tccctccct   | 1560 |
| tgtagtctca  | cttcttccaa | ctttccattc  | cccatcatgc  | tgggggtctt | ggtcacaagg  | 1620 |
| ctcagcttct  | ctccactgtc | catccctcct  | atcatctgta  | gagcagagca | caggcagttg  | 1680 |
| tgtgccttgg  | gcccagggaa | ccctccatca  | acctgagaca  | ggactcagta | tatgttctt   | 1740 |
| gggtatgccc  | taccaggtgg | aataaaaggac | acagatttga  | tttctaraaa | aaaaaaaaaa  | 1800 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | 1860 |

<210> 82

<211> 1509

<212> DNA

<213> Homo sapiens

<400> 82

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ggcacgagga  | tgtacctaat  | gagcttctcc | attcactttg  | taaaaataat  | ttgtagtgt  | 60   |
| accatcttgg  | tctctcccc   | tcccgttttg | ttaaaatata  | aggatagcac  | tcccaggcca | 120  |
| ctttggtctc  | agtgtgaagat | ccctattaac | tatctgaaag  | gaaaatagag  | ccaagacctc | 180  |
| tggtctcaaa  | tatataggaa  | ttgcctttct | ttagtcttca  | ggactattgt  | gtgaaaacaa | 240  |
| gtaggggtct  | aatctcctag  | aaggtagggg | ctttatcctt  | aaagagaata  | tgtccccaga | 300  |
| ttattagcac  | ttttagagga  | gaagccaagg | tatgtagggg  | tgtgtggctg  | gccatcagt  | 360  |
| ggagcacgaa  | gagagaatgg  | gataccattg | tgggaagaga  | agaaaagttc  | ctcaggggcc | 420  |
| tccactgct   | aaagtttttt  | gtgagatggt | gatctgtgct  | tcctggatttg | actttttaa  | 480  |
| ggaattattc  | tggcagcaca  | tgtagtattc | ttggatgatc  | ttgctgctct  | tatttctcct | 540  |
| tttgtgtgtg  | tgtgtgtgtg  | tgtgtggcta | tgggttttca  | tttgtaactc  | catctgctta | 600  |
| ggagagtggg  | ctctctataa  | gggaacctgc | tgtaaacttc  | attgcagcaa  | ggatgtagag | 660  |
| agaaaatagga | cttaattcca  | ctaggggctc | tcatctcaca  | ccttaaggag  | gagatttcta | 720  |
| gaaaaactgg  | gccagatttt  | ctttgttctc | catcatttta  | atgtggcagg  | ctgttcagtt | 780  |
| ttcttactct  | tacctatgtg  | atatttcttc | gtaacgtgtc  | caaaaagaaa  | aaagacccaa | 840  |
| tcagtgtctc  | ttgactttgt  | tctttgatcc | ctcagtttct  | tcttgtttc   | agcatgtgtc | 900  |
| gggttcctaa  | ttttgggtat  | gagttagcaa | atttaacat   | tgtgtttgtg  | ccctaccag  | 960  |
| gggactcccc  | agtttctgac  | ttgaagtaga | ctgagaagaa  | tccacgaggt  | gctatctggc | 1020 |
| cagatttaag  | tagattctat  | ttccttgggt | ctccctctcc  | ctgaggacct  | cttattttat | 1080 |
| tgtccctct   | tctaggttaa  | ttctcctttg | atttgacttt  | gttgagaagg  | aggttggaca | 1140 |
| gtagattagc  | aaagttccaa  | gtgcaaaatt | acagtgtgtt  | agagtgtggg  | gggaaaatta | 1200 |
| gtcttatttt  | tccctacatg  | ggatacaaca | ctgtgaattc  | aatcttcaac  | tgaaggccct | 1260 |
| gcagttctcc  | taaaacatag  | ttgtttgttt | ttctttaacaa | aagtttaagc  | tagtgttaat | 1320 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aaattaaaaa | aaattgcttg | tctgtctact | tcagctttgt | tttatgccca | tttcatattg | 1380 |
| ttgtctgtgt | tgtaatcat  | aacttttgat | accatttctg | atgtgtaaaa | ttgggtgtct | 1440 |
| tgtaaatata | ttataaagag | ttcaattgta | aataaactat | tgtggctgtt | aaaaaaaaa  | 1500 |
| aaaaaaaaa  |            |            |            |            |            | 1509 |

<210> 83  
 <211> 967  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 83   |             |            |            |            |            |     |
| ggcacgaggg | cttcttggct  | gggactgtct | ccacgctggg | gtacaagttc | ttcacgcccc | 60  |
| tccttgaatc | aaaattcaaa  | gtccaagaca | catgtggagt | cacaacctc  | catgggatgc | 120 |
| cgggggtcct | ggggggccctc | ctgggggtcc | ttgtggctgg | acttgccacc | catgaagctt | 180 |
| acggagatgg | cctggagagt  | gtgtttccac | tcatagccga | gggccagcgc | agtgccacgt | 240 |
| cacaggccat | gcaccagctc  | ttcgggctgt | ttgtcacact | gatgtttgcc | tctgtgggcg | 300 |
| ggggccttgg | aggcatcata  | ttggtcttat | gcctcctaga | cccctgtgcc | ctgtggcact | 360 |
| gggtggcacc | ctcctccatg  | gtggggggca | gagaagcctc | acagatcctc | ccctaccacc | 420 |
| accagggtct | ctgctgaagc  | taccctttct | ggactcccc  | cccagactcc | cagcactacg | 480 |
| aggaccaagt | tcactggcag  | gtgcctggcg | agcatagga  | taaagcccag | agacctctga | 540 |
| gggtggagga | ggcagacact  | caggcctaac | ccactgccag | cccctgagag | gacacgctcc | 600 |
| ttttcgaaga | tgctgactgg  | ctgctactag | gaagtctctt | ttgagctccc | attcctccag | 660 |
| ctgcaagaag | ggagccatga  | gccagaagga | ggcccctttc | cacaggcagc | gtctccacag | 720 |
| ggagaggggc | aacaggaggc  | tgggaaatgg | tggggagtgg | ggccgtaact | gggtacaata | 780 |
| gggggaacct | caccagatgc  | ccaacccgac | tgccctacca | gcctgcacat | gggtagaaga | 840 |
| ggccaaattg | aggcacccag  | tgatccactg | gccccacgtc | acacagttac | agtgaagccc | 900 |
| aagccaggcc | tggttgaggg  | tgataaacgc | cactgtctct | aaaaaaaaa  | aaaaaaaaa  | 960 |
| aaaaaaa    |             |            |            |            |            | 967 |

<210> 84  
 <211> 885  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (233)..(233)  
 <223> n equals a,t,g, or c

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 84    |             |            |             |             |             |     |
| aattcggcac  | gagagggctg  | catccttgcg | ttctgtgagc  | tctgcccgtt  | gggagcatcc  | 60  |
| atgctgatgt  | gcaggggccc  | tgcagcactg | cattctctct  | gccttctctg  | ttctgttttag | 120 |
| tacaaccacc  | ccagcaggtc  | tccagttcct | gccaggttag  | tgtggatggc  | ccagcaccat  | 180 |
| ctcctctcca  | tcttgtttgg  | tatcctctct | tgttcctcac  | aaccccgcga  | ggntcgcggc  | 240 |
| tcaggagctc  | tgccgtgtga  | agtgtgtctc | gcagttctcc  | tcacatgtct  | acgcaaaatc  | 300 |
| tctggctccc  | tgtgtgtctg  | agcccaacag | acacactgag  | cacaggagtt  | ggctctcagc  | 360 |
| tcctcccagc  | ttgccgtgac  | tgagccytgc | cgctctgtgg  | camcgccasg  | gagaccacag  | 420 |
| tgtccaactg  | tccaaccttt  | acgtaattgg | catcccagga  | ggagaagcaa  | gagtgaatgg  | 480 |
| ggcaggaaaa  | gatacattaaa | gaaatcgtgg | ctgacataaa  | aaaggatgag  | ttcatgtcct  | 540 |
| ttgtagggac  | gcgtggatga  | agctggaaac | catcattctg  | agcaaaactat | cgcaaggaca  | 600 |
| gaaaacaaaa  | caccatgtgt  | tctactcat  | agggtgggaat | tgaacaatga  | gatcacttgg  | 660 |
| acacaggggtg | gggaacatca  | cacaccgggg | cctgtcgtgg  | ggtgaggggg  | atggggcagg  | 720 |
| gatagcatta  | ggagatatac  | ctaattgtaa | tgacgagtta  | atgggtgtca  | gcacaccaac  | 780 |
| atggcacatg  | tatacatatg  | taacaaacct | gcattgtgtg  | cacatgtacc  | ccagactta   | 840 |
| aagtataata  | aattaaaatt  | aaaaaaaaa  | aaaaaaaaa   | cgtag       |             | 885 |

<210> 85

<211> 853  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
 gggctcgaccc acgcgtccgg gtgaattaac acgtacccaa tggccaagag tagatttggg 60  
 tgtcagtgat aaaattttca ttttc~~aaaa~~ cctggtgttc tcagttacag ctttatataa 120  
 gtatagtaat aacttttagca gagctgtaga gagatagatt tgcaaacttg aagtgatatg 180  
 ggataaatct ccatacgtgg tagaatttta tataaaatgg catatttcaa ggtatgtgtg 240  
 attatttggg ttcagcaatt ctgtgttgaa gaaactagta tcataaaaaa tggtc~~gatg~~ 300  
 ctgacatcag aattccagaa ttcatatgcc acccctgttt ctgggctcct tcctgggtgct 360  
 gtggccttga ggggtggtgc tgtgtacggg tgggtgaggc acgccatgca ggtattgcag 420  
 aaggaaccca cgcaaccgtc atcctttcta cccccaagtg atgctgcctc attctggggg 480  
 cctgaaagta ggcttcactt aacatggtag ggaagtttct ggctgaaaaa gcaaaaggct 540  
 tttatcactg gagtctatcc tgagccccct gtgcaaaagg cagtgtgaac tcaggggaca 600  
 gaatcactga agcttttgta aaagcacaac atctgcctat cacagtccaa aggggacttc 660  
 aaaatcaaga atgtctgtga cggagaagat ggaaacagag cctggctgat gttgtaggt 720  
 gaatcttctc tgtgtcgaga tgttatcagt gaccgttttc tttatttcat gaagaaacat 780  
 ttttaataata ttcacctccc tgcatatatt ctgtttactg tgttattgtt aaaaaaaaaa 840  
 aaaaagggcg gcc 853

<210> 86  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
 tcgaccacag cgtccgccct gcatggcgag atgtcctcct ttcccgggcc acagtgtgtg 60  
 caactaataa acctcctcca tctcatctgc ccagtgtcgg gtcttgtgtg ttcagccatc 120  
 accatagccc tcaggcagaa gtccatccct caccaacagg gaagagaggc ag~~gat~~caaa 180  
 acacctctc caggaagtct tccctgaagt tcgtagtctg gcttcagtgc cacttcttcc 240  
 ctgccctcat attcgctaac cgccacttac tgccctggttt tcagcctcac taggatgtgg 300  
 gccactaagg gccaacatgg tctactttgc agctgcatta tcagggccta ccataacacc 360  
 ttccaaatgc ttaaaaaaaa aaaaaaaaaa aagggcgggc 400

<210> 87  
 <211> 1261  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (481)..(481)  
 <223> n equals a,t,g, or c

<400> 87  
 gttttcaaac tcattttctaa gccaaatagt ttagataaat atttaccctt ~~h~~atttgggg 60  
 ggaattcagg ctaccatttt gccgaggcaa gcccatcaac agtctagagg catattctgt 120  
 gtcattcctt cccgtctcct tcatagaata ctactttttc cttttgtctc ctggccattc 180  
 tccatcatct gctgattatt gctaaccaca ggatgctggc aaagcttaca gtgataggca 240  
 catgtgttca gtgatgtcca atacactctt atcacagtgg ttattgcttc ttactctttt 300  
 caaatgcatt attctacccc tcaacctaya tccaatcatt agaactatac ctgactggag 360  
 ccagaactt gggaccaata cttaattcaa atagcagggg cttgctcaca aacattaagc 420  
 ccaamaagaa gcacagcact ttkgaaaagt caaataggsc tttgg~~ag~~ct ctgtacattt 480  
 ngcaatttac attgttatta agtttatagc actaataaca cttcagtcgt gaatctacag 540  
 tctcaatatg ataagtctta gaacatgttc tagaaatagt ggtaccttgc tgctattata 600  
 cttagtaact tataccccaa tataataata agtattaaat acagattgtg tatgcattct 660

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| ttgtgtgtat  | atgccaaactg | tactacttaa | cctcactgat | gagcaattag | aaaaatacac | 720  |
| aaattgtcat  | agtgaataa   | agtcttggtc | aattcagatg | atacgtgaac | ctgataaatg | 780  |
| ctctaataga  | tatgctat    | tgtcctgtat | tgtctgtttt | acagtatggt | gcatgttgtt | 840  |
| tgctaagtaa  | aatgataata  | ataataaagt | ataccaattt | taagggttag | aattaaaatt | 900  |
| ttgcacatat  | gcttcttgat  | attctgaaat | gtattctgtg | gsttmattat | cttattcata | 960  |
| cacattkmgc  | twggcttttt  | acccttagga | aataactgtc | caagtatata | tctcgtcttc | 1020 |
| tttcttgtaa  | ctttgattaa  | actgcttact | tcaacttaca | acattgtaaa | gccagaatac | 1080 |
| ctcatTTTTAA | cagtgaAAAA  | aaatattatg | acctgatgtg | ttctcttgta | tttgatttga | 1140 |
| actacctaaa  | taggcttaac  | tgtataataa | aataataaat | tttggcaaaa | aaaaaaaaaa | 1200 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaagggcggc | 1260 |
| c           |             |            |            |            |            | 1261 |

<210> 88  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 88   |            |            |            |            |            |     |
| gaaaaaatgc | tagggagaca | aaatcaaagt | ttaaggggct | gggctctcag | cacattcttg | 60  |
| gtttgcattc | tccagtgggt | cagaagcctg | acaatccgcc | tagcctctgc | tttgagcgtc | 120 |
| aggggaccca | gttctattcc | tgcctcctta | gccatcatct | acacactttt | tatcttttct | 180 |
| tttaaatTTT | taaaaattgt | gaaatctata | tacataataa | ccatatgttc | aacttaaaga | 240 |
| atagtaaaca | actgtgtccc | taggatccaa | gttaagaaat | agatcagagt | cagtttctta | 300 |
| gaagcttcta | tatgtgcttc | tccccagtea | tgtgtctccc | tgtctctacc | tgagggaaat | 360 |
| tacagatttc | atgcttttct | ttatagtttt | cctttacaca | cataccctta | agcctctaag | 420 |
| tactatatgg | ttcgggtttg | caaagcccg  | aagcctat   | taatgctgta | tataagaata | 480 |
| tgctagccgg | gtatggtgac | tcataacctg | aatcccagca | ctttcagagg | ctgtggcagg | 540 |
| agggttgctg | aagcctagga | attcaagacc | agcctgggca | atatagggag | accccttcac | 600 |
| tacaaaataa | aaaattaaaa | aaaaaaaaaa | agggcgggcc |            |            | 639 |

<210> 89  
 <211> 3576  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |            |             |      |
|------------|-------------|------------|-------------|------------|-------------|------|
| <400> 89   |             |            |             |            |             |      |
| ttcatctgcc | tctcgcaaga  | aaaagtcctg | gtaaataac   | attagcattt | ccgtttttaca | 60   |
| cagaacactg | acagatactt  | tcctaagatc | atggagttaa  | taccaccag  | aacctagact  | 120  |
| caatacttat | ggaacttcaa  | atctcatgct | tttctcattg  | cacttatgat | tactccatta  | 180  |
| tgtaggagca | agggagagtt  | gagagcattt | gaagagggtta | tgcaaaggac | cagctctgag  | 240  |
| gagtaggctt | agcaaagtaa  | catgagggaa | ggtaacaccg  | ttcatctgtg | tagcggagtg  | 300  |
| ggagccaaga | gacaaggaga  | aagtttcatg | ttcgtcatgt  | gtctcggata | ttcgggtttc  | 360  |
| tgcagggacg | agaacgcgca  | gtttcgcctc | catcccttga  | cctccaacac | agcttctcca  | 420  |
| ctggatcatc | ggtggcgatg  | aaggggcggc | tgggaagga   | tgtcagagaa | accagaagct  | 480  |
| tgacggtgaa | tcctcgggtt  | ttaaggagag | agcaaagtcc  | tgagagggcg | acgtattgtc  | 540  |
| cctgctcacc | tagcccagaa  | tgaacaaaca | cgcgccagcc  | agggagcagc | gagccgagaa  | 600  |
| ttcggacgag | cctctgcaac  | cgccatttgc | cgttctcgca  | aagactacca | agaccacaat  | 660  |
| gcaacggggc | gccgagctaa  | ttcccagtga | gcagcaggcg  | aggcgccacc | gacgcggaag  | 720  |
| actataagcc | ccagcgggcg  | acgaccgaac | gcccccgga   | acaccgggcc | ccgagctcgg  | 780  |
| tcccgcgcgc | gaggtacctc  | cacggggcta | gatggctgcg  | tcggggcgcg | gagcggaggt  | 840  |
| gagcgggcgc | tagggccgcg  | agccccgcc  | ggcccttcct  | ccagegccct | gcggaccccc  | 900  |
| cagaaggcgc | tcgcctccct  | agcccgcaaa | aacatatcga  | tttttctcgc | tgtggcaacg  | 960  |
| gggacgtcct | gatagatcct  | ctgctccaat | aggcaactcc  | ggccttcctc | gccctgacct  | 1020 |
| ggaacctctg | ggagggctgc  | agagtaaagt | ccgcctctgc  | gctccgacgg | aggcacggg   | 1080 |
| cctgtggagt | aggtccctct  | gttccgacag | gtgcgacact  | tggcgctcca | tgcttgccgg  | 1140 |
| tgccgggagg | cctggcctcc  | cccagggcgg | ccacctctgc  | tggttgctct | gtgctttcac  | 1200 |
| cttaaagctc | tgccaaagcag | aggctcccg  | gcaggaagag  | aagctgtcag | caagcacctc  | 1260 |



|            |             |            |             |            |             |      |
|------------|-------------|------------|-------------|------------|-------------|------|
| aaatttgcca | tgctggctgg  | tggaagagtt | tgtggtagca  | gaagagtgtc | ctccatgctc  | 1320 |
| taattttccg | gctaaaaacta | cccctgagtg | tgggtcccaca | ggatatgtag | agaaaaatcac | 1380 |
| atgcagctca | tctaagagaa  | atgagttcaa | aagcttgccg  | ctcagctttg | atggaacaac  | 1440 |
| gcttattttg | gaagttcgaa  | ggggctgtcg | tgtgtgtggc  | cctgatcttc | gttgtcttg   | 1500 |
| tcatcattcg | tcagcgacaa  | ttggacagaa | aggctctgga  | aaagggtccg | aagcaaatcg  | 1560 |
| agtccatata | gctacattcc  | acccttgtat | cctgggtctt  | agagacccta | tctcagacag  | 1620 |
| tgaagtgaa  | atggactgat  | ttgcactctt | ggttcttttg  | agccttgtgg | tggaatcccc  | 1680 |
| ttttcccat  | cttcttcttt  | cagatcatta | atgagcagaa  | taaaaagagt | aaaatggttt  | 1740 |
| ccttcccttc | tgtaacttgg  | agcaggaagt | catgggggca  | gagagggaaa | ggaggtggtt  | 1800 |
| acttaaggcc | ccaatctacc  | aagtcttccc | caccacttct  | cccttgtttt | ccccctcttc  | 1860 |
| tactacttat | ttcaaacttc  | tgggatacaa | tttcagctaa  | aacgttatt  | tctcactcaa  | 1920 |
| aacttatttc | ccctcaaccc  | tatacccaaa | gaagaaataa  | aatcacagat | acataacaga  | 1980 |
| agtatttgag | gtaccctctc  | atatatgcaa | acaaatgcag  | actaggcctc | aggcagagac  | 2040 |
| taaggacat  | ctcttggggg  | gtcctgaagt | gatttggacc  | cctgagggca | gacacctaag  | 2100 |
| taggaatccc | agtgggaagc  | aaagccataa | ggaagcccag  | gattccttgt | gatcaggaag  | 2160 |
| tgggccagga | aggctctgttc | cagctcacat | ctcatctgca  | tgcagcacgg | accggatgcg  | 2220 |
| cccactgggt | cttggcttcc  | ctcccatctt | ctcaagcagt  | gtccttgttg | agccatttgc  | 2280 |
| atccttgggt | ccaggtgggt  | ccctcagctc | ggactctacc  | attgggtct  | ccagattttc  | 2340 |
| tgttacgtcc | ttgtgggtca  | ggatatttct | ggaagtcact  | ccgtgaggct | ggtaatcctc  | 2400 |
| agaccagct  | tctggctcgac | tctggaatgg | actgaagctg  | ggcaggatga | tgagagccag  | 2460 |
| ggaaaaaaga | agaatcaaaa  | cacaagtgtc | ggtctgggca  | gctttgttgg | aagtttgagc  | 2520 |
| aattagcgct | tgcagctggc  | ggagctgagc | taccaaggag  | atgttgtgcc | tctccagctc  | 2580 |
| ctggactttt | ttctgtaatt  | cttggttctg | tgcagaacag  | gctgccaccc | tgtctccag   | 2640 |
| cccatcaatg | tactccttct  | tccgccgcgc | actgtcctga  | gctgactgct | tgttacggat  | 2700 |
| tttctcctg  | acettcttga  | ggaccctctc | ctctgcttg   | gtgaggggca | ggtgagaggg  | 2760 |
| cagggaaacc | ccttctctgcc | ccagcagacg | cttctcctca  | tcggtcagga | acagggtttg  | 2820 |
| acagggcagc | aggggtgtac  | agggcactgg | ggctacgggtg | cctgctctgg | gcaggatgtg  | 2880 |
| ggcatgagca | tcaaagggca  | gctcactgac | catgcaggaa  | tcaggcacca | taaagtctgg  | 2940 |
| gctccactga | tctagctgga  | tggagataag | gcctacattt  | ggcccagttt | ccccctgcat  | 3000 |
| cctctccagg | gcccctgcct  | catagacaac | ctcatagagc  | ataggagaac | tggttgccctg | 3060 |
| ggggcagggg | gactgtctgg  | atggcaggag | tctcagaga   | tgccactgtc | actgccagga  | 3120 |
| gatgcttctg | agcagtacac  | ctcattggga | tcaatgaaaa  | gcttcaagaa | atcttcaggc  | 3180 |
| tcactctctt | gaaggccaca  | gccacggtcc | ccaccggact  | tccagccttg | cagtcctgtg  | 3240 |
| tctgtagccc | tagttaccgg  | aacctctgga | ggggggcagt  | ggagtcccag | ctccaggacg  | 3300 |
| gatectgtcg | agaagatata  | ctctgggggc | tccagccacg  | cgtccagcag | gtcagggatt  | 3360 |
| ccgagatcca | tgcttactac  | aaaagtggat | gccaccttgc  | caggagccac | ggtagggccg  | 3420 |
| ctgtatctgg | gagtagggga  | ctaagagtct | gaggggtccac | aaacggaatt | taagaagtag  | 3480 |
| gtagccgcgc | cctttctgct  | gcagttttct | cttagctata  | gtaaatcttc | ctgaggggtt  | 3540 |
| ggtgtctcct | agctgaagaa  | cagaaggc   | tgtgac      |            |             | 3576 |

<210> 90

<211> 1262

<212> DNA

<213> Homo sapiens

<400> 90

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| cagcatgtac  | ccagttgttc | tttctcctga  | gaaagcaaaa  | tgcttgatat  | ttcttataat | 60  |
| ccaggctgcc  | acgtttacct | tgtaaaaatca | atacttaatt  | tttagatttt  | tatattatct | 120 |
| tttctcgtga  | agcaagactt | ctaaattatg  | gctataatat  | cttttgaatt  | gttgttctta | 180 |
| atgaatcttc  | caactgtaaa | ctcatctaatt | ttcaaaactta | tcataacctga | ggatgtaaca | 240 |
| ttgtcctttg  | tttctcatct | tgatattacc  | gtcaatcatt  | ttgtatttct  | gagtacattt | 300 |
| gaacttgcctg | gagtaataga | gggaaacct   | ctgcctgatt  | ctaaatcaga  | tctttgtcct | 360 |
| atactcggac  | aattatgggt | tcatatttta  | ttatttttta  | ttttctgggt  | ttaacaaatg | 420 |
| agataacatt  | ttagacataa | tatttgtaaa  | catcttgact  | tatttcagca  | ttttcctttt | 480 |
| ttgtgtatct  | tcagagagtt | tgttgaaagt  | agcaatttcc  | aagtaatttt  | aaattatga  | 540 |
| agtctactag  | cacgaaaggt | caaattctta  | ggatatattaa | aaaatgttgt  | ttaataatca | 600 |
| aactcatctt  | aaaaaatgtt | catcagactc  | tgtctttgat  | gcacattttg  | ccaaaagaga | 660 |

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| gccttatttc  | tgtgaaagaa | atacagtatg  | tactttggga | tttactaaag | taaaactgtt  | 720  |
| actttaaggc  | acagagcaga | tatagaatcc  | ccctctctcc | ccactcctag | tgactgggtat | 780  |
| tctacattaa  | tatttatctt | ccatgcatag  | tgtacttgag | ggaaaaaac  | aataactctt  | 840  |
| aattgtttta  | tatcaaacaa | taaaatcctg  | tgtatcagtg | actgtcaata | gatggctttc  | 900  |
| tgtttaaaaa  | ctgaagctac | tccagaagta  | ggaattaatt | tatttagtaa | aaaagtcag   | 960  |
| tcaaaccaga  | gcatgtcct  | ggggaactgt  | caaaagaatg | gttcctaagg | gccagaggcc  | 1020 |
| acatccactg  | gtagatgaca | gaacaacccat | acttcagatg | gcaaaaccgg | tcagtttggt  | 1080 |
| ttgcgttggtg | tgcctatcct | ctttctgtgt  | gcttcagctg | aattaagtgc | ttggagagct  | 1140 |
| caaatagttc  | aagatagcca | agatgaccaa  | ttctgccagg | tggcaagcct | gatcttgcaa  | 1200 |
| ttttgattaa  | aataaagaac | attccccaag  | aacagtttgt | tgcaaaaaaa | aaaaaaaaaa  | 1260 |
| aa          |            |             |            |            |             | 1262 |

<210> 91  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 91   |            |            |            |            |            |     |
| ggcagcagcc | aatatccact | ctacccagct | gggccccag  | tctacaaccc | tgacgctcct | 60  |
| cctccctata | tgccaccaca | gccctcttac | ccgggagcct | gaggaaccag | ccatgtctct | 120 |
| gctgccccct | cagtgatgcc | aaccttgga  | gatgccctca | tcctgtacct | gcctctggtc | 180 |
| ctgggggtgg | caggagtct  | ccagccacca | ggccccagac | caagccaagc | cctgggcct  | 240 |
| actggggaca | gagccccagg | gaagtggaa  | aggagctgaa | ctagaactat | gaggggttg  | 300 |
| ggggagggct | tggaattatg | ggctatttt  | actgggggca | agggagggag | atgacagcct | 360 |
| gggtcacagt | gcctgttttc | aaatagtccc | tctgtcccca | agatcccg   | caggaaaggc | 420 |
| tggggcccta | atgtttgtcc | cctctgggct | gggggtgggg | gagggaggag | gttccgtcag | 480 |
| gcagctggca | gtagccctcc | tctctggctg | ccccattggc | cacatctctg | gcctgctaga | 540 |
| ttaaagctgt | aaagacataa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 600 |
| aaaaaaaaaa | aaaa       |            |            |            |            | 614 |

<210> 92  
 <211> 958  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 92   |            |            |            |             |            |     |
| gaattcggca | cgagtgagat | tgcatccaga | cagagtttta | aaagtttccc  | ggttgagttt | 60  |
| aatgtacagt | tgaagttgag | acatgaatct | ctgcatgtag | gggaaatttt  | gtgtctggtt | 120 |
| agtcaagaaa | ctatgaaac  | caattcttga | tattttgaac | cattcacgaa  | gatagtttga | 180 |
| gtcatgagca | tgctgttgtc | tagagtgggc | ggggatgact | cattggagtg  | gatgcgctgc | 240 |
| tctgtacttg | atttttttga | gtctgaaatt | agctttccag | gctggggcag  | ggaggggagc | 300 |
| acaggtggga | tcagtactgc | ccccaaagcg | tggagctgtg | gtggtggatc  | aaatactgct | 360 |
| gccgcctgtc | tgacaaaaca | tatttctctc | ttccagccct | tcagaagtgt  | attggaatat | 420 |
| gtcgwtaaca | ataatgatgg | tagtgaagat | gatgatgatg | tgggtaattc  | tggtacctt  | 480 |
| attgggtcca | agctccccc  | aattcggtgc | acaaagcact | ctaatacat   | tctctttagt | 540 |
| cctgatcaaa | ccacctttca | gagtaggatt | tagtgtccta | ttttaagat   | gaaggagctc | 600 |
| gggctcagag | agagatcggt | tagacacaca | cacaactttg | gaatgaaaca  | tttacagccg | 660 |
| ggcgcggtgg | cgcgtgcctg | tagtcccagc | tacttgggag | gctgaggctg  | gaggatcgct | 720 |
| tgagtccagg | agttctgggc | tgtagtgcgc | tatgccgac  | gggtgtccgc  | actaagtttg | 780 |
| gcatcaatat | ggtgacctcc | cgggagtgga | ggaccaccag | gttgccctaag | gaggggtgaa | 840 |
| ccggtccagg | tyggaatgaa | acatttacaa | aaattgacat | ttccttatgc  | atagatat   | 900 |
| cactaggtcc | ttaaaaccca | cgtgaatctg | tgattaaaa  | aaaaaaaaaa  | aaactcga   | 958 |

<210> 93  
 <211> 712  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (44)..(44)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (625)..(625)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (692)..(692)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (699)..(699)  
 <223> n equals a,t,g, or c

<400> 93  
 tgttgtttgg aatttgtggan cggattaaca atttcaccac gggnaaccgg ctttgnccca 60  
 tggattccgc caaggcccgca atttaccctt tcactaaagg ggaacccaaa gctggagtc 120  
 caccgcgntg gcggccgctc tagaactagt ggatcccccg ggctgcagga ttcggcacga 180  
 ggtttcctgt cagtgctatt gagattttat tttattaatg tctgcactta gttttacttc 240  
 ctactttcta cttttattga gagttaaacg tgttgaagtc tcaggttcaa ttcctcacc 300  
 tgagcaacct aatgttttat gcttgttct tctacattt ggttattgaa actgaagttt 360  
 taggttacca gatttgatag aagcacataa gactacttac tgctttagtc tcaattatta 420  
 attgagaaat tatcaattaa caataaggat ttctcttatt tttccccaag ataagttata 480  
 tatttaaagt gtgttttata gtagaaaggt tttagaatat ttgggttgct aattaattg 540  
 aaatggcagc tgaagatgtg atttccagcc agggatttat taaaaaaaaa aaaaaaaaaac 600  
 tcgagggggg gccgtaccca atcgnccat agtgagtcgt atacaatcac gggcgctcgtt 660  
 acacgtcggg ctggaaacct gcgtaccact ancgtgcnc acacccttc gc 712

<210> 94  
 <211> 1106  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1017)..(1017)  
 <223> n equals a,t,g, or c

```
<400> 94
gagcaagctc attttttttt cctatgaggc ttttgtaagt cctgacctgt atttactgtt      60
aacttcttag cttgggttca tgcaccccca gtcagtataa ctgtggact cataccact      120
ttggcacagg cttggagtat ggatttatta caggctctgtt tctttttgtt tttctcccat      180
ttatggctct ggacagaagg taagcttcct tgcaacttcc ctgggtccggt gggtagagtt      240
ttcttgctcc ctttccagat gttaggtttt aaacaatgac tgttctttct ccatcatgta      300
gaccaaaggc caagtctctg gtcccatggt gagattaaaa cccaagcccc tatgtctagg      360
tccagtcccc actgatttct ctaattgtga gtctttctgc ttacctagta cctagagttt      420
ctcttcccaa gttttaaaaa tatcagttct aagtaggcct agcgtttcta catattttta      480
gggagagggg accctttctg tggcagctca gtgttcagca ttctgtaag ttagcatgct      540
ctgtgtatag cagatatcac tagtaatagc atttrgtaag tgatgttcac acatgctgct      600
gtcatgaaca ctatctcatg ttgtgtaaca ctttcatttt tocaagaact ttataatcag      660
ccgacttgaa actcacagtc gtcccctcag aaaggcaggg caaatgttgt tatttccaat      720
ttgtcagaag ctcagaaagc ttattctgtt gctgacagtc cttgcaaggg tcagaatcag      780
gaccggagcc ccagatgcgc tgggtgtcact gatgtcccgt gccgggcatg agcccttctg      840
tgcaaggagc tccagtgtct cccggacagt gatgatgtga aaacatttag aaccgacct      900
cacaataagg cagattttca ttctgtacct aaaacagaa cacagattta atgcagagca      960
aaagggtctt aatcaacaga tatgttcatt tttcacgtag acctatttta caagctnact     1020
tgtaagccag aaaatgacat tgcagatttt caagtgaaga caaatgattt ggtccaataa     1080
ttaaaaaaaaa aaaaaaaaaa ctcgag                                     1106
```

<210> 95  
 <211> 1089  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (353)..(353)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (528)..(528)  
 <223> n equals a,t,g, or c

```
<400> 95
cggcacgaga aacgcggtgc ttgtctctcc cgagtgggcc ttggcagggt gttggagccc      60
tcggtctgcc ccgtccggtc tctggggcca aggcctgggtt tccctcatgt atggcaagag      120
ctctactcgt gcggtgcttc ttctccttgg catacagctc acagctcttt ggcctatagc      180
agctgtggaa atttataacct cccgggtgct ggaggctgtt aatgggacag atgctcgggt      240
aaaatgcact ttctccagct ttgcccctgt ggggtgatgct ctaacagtga cctggaattt      300
tcgtcctcta gacgggggac ctgagcagtt tgtattctac taccacatag atncttcca      360
acctatgagt ggcggttcta aagaccgggt gtcttgggat gggaatcctg agcggtacga      420
tgccctccatc cttctctgga aactgcagt cgacgacaat gggacatata cctgccaggt      480
gaagaaccca cctgatgttg atgggggtgat aggggacatc cggctcancg tcgtgcacac      540
tgtacgcttc tctgagatcc acttcctggt tctggccatt ggctctgcct gtgcaactgat      600
gatcataata gtaattgtag tggctcctct ccagcattac cggaaaaagc gatgggccc      660
aagagctcat aaagtgggtg agataaaaac aaaagaagag gaaaggctca accaagagaa      720
aaaggtctct gtttatttag aagacacaga ctaacaattt tagatggtaa ggttcacaaa      780
taggttgatt tctttcttca gctttctgac atgtccagcc catctctaag gaggactccc      840
agatcatcac tttatggctg ttaggtgttt cccatatgaa attagaggag ctgggtcagg      900
gagacaaaag tcttctatta gtcttatgga tagctcctcc ttgagtgtat tttgtgcaaa      960
agattaagaa gctggactct actgccatta aagctgagag aatcctaagg ttaaaaaaaaa     1020
```

```

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa 1089

```

```

<210> 96
<211> 1254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1036)..(1036)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1069)..(1069)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1100)..(1100)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1165)..(1165)
<223> n equals a,t,g, or c

```

```

<400> 96
gcgtccggag agctacctag tcaacctgtc tctcaagac aacgatggct ccagtggggc 60
ttcagaccag gataccctgg ctctctgtcc tggggccacc ccctggcccc tgctgcccac 120
tttctcctac cagtaccctg cccacacccc ctacagcccc cagcctccac cctaccatga 180
gctttcatct tacacctatg gtgggggcag tgccagcagc cagcatagtg agggcagccg 240
gagcagtggg tcgacacgga gtgatggggg ggcaggggcg acggggaggc ccgaggagcg 300
ggcccccgag tccaagtccg gcagtggcag tgagtctgag cctccagcc gagggggcag 360
ccttcggcgg ggtggggaag caagtgggac tagcgatggg ggccctcctc catccagagg 420
ctcaactggg ggtgccccta atctccgagc ccacccaggg ctccatccct atggaccgcc 480
ccctggcatg gccctcccct acaaccccat gatggtggtc atgatgccc cacctccacc 540
tccagtccct ccagcagtgc agcctccggg ggccctcca gtcagagacc tgggctctgt 600
gccccagaa ctgacagcca gccgcaaaag cttccatggc catgggcaat cccagcgagt 660
tctttgtgga tggtatgtag cccactgtgg ggccagggct ggccgggccc tcctgggtgtg 720
tgactgggtg tcctggccgt catgtgcttg ctcttacagt gcctgggctc agcctaccag 780
ctgctgccat acaggagatt gtggccactg tgactctcac cagcagtgcc tggttcctcc 840
cccttcctc aggggtagac aagggaacct tgattatatt tagctttgtt tttttataag 900
cctttttggg gggttaaaata gagtttctta catttttggg acttttttaa taggcatttc 960
ctcttttata tgaagaattc ccatccattg ggccctttt aaccccagaa tgtgacctcc 1020
tcctccagtt acccanagcc ctgccgtttg cagggttggg ggtggtcanc ggtaaccgg 1080
ggttaggcat cctagacagn agcctgagga agctgggaga tttgggccat gtagctgcct 1140
ttgttactct atttatttta gtcanttgta taaaacacca aataaagcaa tagaggcaaa 1200
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1254

```

```

<210> 97
<211> 865
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc\_feature  
 <222> (365)..(365)  
 <223> n equals a,t,g, or c

```
<400> 97
gaattcggca cgagtgccct cgtatctaca tgetcaccta taccctcacc cgacttttcc 60
ctcctcctca ccccatcaaa ggcaataatg cacctgtttt tattcatctg ggccttgggt 120
cttccccttc atatttcccg agacctcgct ttcttctttc tcttgatatt tttatttttc 180
tatctcttat gtgtccttct ctaaaagtta taaacatgca caaaatcttt ccatctcaaa 240
atataatacc ctttacctgg tgtcccctgc aggccatctt ctttatttat ttacttttgc 300
gccaggtctt cctctgaag ccaggctggg tgcgtacgag atcatggctc actgcagcct 360
cggantcccg ggctcaagcg atcctcctgc ttggaggatc agatttttta tccttgacaga 420
agtgataata tggcttcttc ctcatctcct aaacaccagt catctgacat aactgcagaa 480
tctaaaatgg gccttacgtg ttctgcccct ccttgccctac ctgttgagcttgaccgctt 540
ctgtgagctc cccccaccc acaagagatc ctcttctcct cgcgctccac taaccgcaga 600
taaatgttta tcatataaag ttttccgttg cactcttggt tttatgtctc ctggcttctt 660
caccaagctg tgtgacagct gggccctgtc gcctccttcc tcgtatatgc agcgactatc 720
gcagagccgc ttaactcttg ttgaaggcag ctgcggttca gccctgaggg ccacgggacg 780
gacgccactc attcagycct accgggggag ctgtggcagc cggcattggg tgccgtgccc 840
tcgcttctgc tcgctcagcc ctgca 865
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<210> 98  
 <211> 1139  
 <212> DNA  
 <213> Homo sapiens

```
<400> 98
acgcgtgggt ccggacgcgt gggcgagcgc gtgggagcaa gccagggcgg cgggtgaaag 60
gctggaggac acacctaaac atgtggaatc ccaatgcggg gcagccaggg ccaaatccat 120
atcccccaa tattgggtgc cctggagggt ccaatcctgc ccaccacca cctattaatc 180
caccctttcc cccaggcccc tgtcctcttc cccaggagc tccccatggc aatccagctt 240
tccccccagg tgggccccct catcctgtgc cacagccagg gtatccagga tgccaaccgt 300
tggttcccta cctcctcca taccacccgc ctgcccctgg aatccctcct gtgaatccct 360
tggtcctctg catggttga ccagcagtga tagtagacaa gaagagcag aagaaaatga 420
agaaaagctc taaaaagatg cacaagcacc aaaagcacca caagtaccac aagcatggca 480
agcattcctc ctcttctcct tcctcttcca gcagtgttc tgactgaata caggccctgg 540
acccttccct caagtctcac cagttctgct ctcccatcaa gcttcagatg ccatgttgta 600
ctgggggaat gtagcccttg tgcctcccac cccctaccts cacctgagcc tcaccctgct 660
gttgagccct gagtggctag gggaaaatgg aagaggattg ccatggcctg gccatcttgt 720
tgctgcttgg ttagatcata tagctaatga attaggcagg ggagctattt tttgaagatg 780
atgaactaaa tgttgaagac aagtttgaga tctgtaaaatgtgatttttt acttccactt 840
ataatacttg tgattgggga ggtttggtga aattcaatta tgatgaaaaa cctatctttt 900
ttgtaatgtt ggcatacttg gggaatttag tggcaatac attccccagc aggccttttg 960
ttggttgac taactgcaag gttgctggga agtagagtc atttggttga tgagctttga 1020
ctgcggtttt ggaaccttac ctctcctcct tagcccaata tgctgtcttg ggtcctattc 1080
aaataaagtt atttctcctg gtcwmaaaaa aacggcacga gcggcacgag ctacgtggg 1139
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<210> 99  
 <211> 1222  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (772)..(772)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (796)..(796)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (823)..(823)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (855)..(855)  
 <223> n equals a,t,g, or c

<400> 99  
 gaattcgcca cgagcacatg wktatatata tattactggt ttgcctccat tgaacatgcc 60  
 ttctacttcc taatttgtgc cagaattgac tagtagacgc tatgaatgca tcatgctctt 120  
 tggcccatTT cgaacactca ggtatgtctg tactcttagt tcatctattc atcattgttt 180  
 ctacagttcc ctcatgcttt aaaatatata tggcttttat aatttatcca gctttttctt 240  
 gtcattttaa taagagtatg tgtcttatac aactactaca ttcattcccag aagtagaagc 300  
 aaactattat aatcccatta tttttattcc tactattctc ttttcagaat ttcttttaga 360  
 tattccttgg atagttttat tcaatcctcc atggctttca gcttatctta tgtttatct 420  
 tttggttcat attctgcatt ctggataatt cttcatcttc actttctagt ttgttgatat 480  
 tccttttggg gactataagc tgctctttaa aatgggtcaat aatgcctaag atgtttatta 540  
 tcttgccctt tgcagaaaaa aattttcagc ttttgctctg gaatgatttt gcatctcttc 600  
 caccaaactt ccagtgtatc aatggccaga aaataatcta tatgttaatt tgttaatttg 660  
 atggttcatg gttcaaggct gtataattta aaagtttgaa gtcaaacaac acatgatggg 720  
 ataatcctga tgttacagat tctcaaggga aaatatgttt ttgttttttc tnccaattgt 780  
 tctartattt acaganaaac ttcttaatta tactgggttg gtnaataartatTTTTcttw 840  
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 caaatttggc cggggcgcgg tggctcacgc ttgtaatccc agcacttttg gaggccgagg 960  
 cgggtggatc acgaggtcag gagatcgaga ccactcctggc taacacggtg aaaccccgct 1020  
 tctactaaaa atacaaaaaa aaattagctg ggcgtgatgg cgggcgcctg tagtcccagc 1080  
 tactcgggag gctgcggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc 1140  
 caagattgcy ccactgcact cccgcctggg ccacagagcg agactccgtc tcaaaaaaaaa 1200  
 aaaaaaaaaa aaaaaaactc ga 1222

<210> 100  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
 cggcacgagt gtaaattgtca ccaccaaaagg tttgcaccct gatcaaaaaag agtatgaaaa 60  
 gaataatacc acaacactta tggcctgtct tggaggcctt ctggggatta ttggtgtgat 120  
 atgtcttata agctgcctct ctccagaaat gaactgtgat ggtggacaca gctatgtgag 180  
 gaattactta cagaaaccaa cctttgcatt aggtgagctt tatectctc tgataaatct 240  
 ctgggaagca ggaaaagaaa aaagtacatc actgaaagta aaagcaactg ttataggttt 300  
 accaacaat atgtcctaaa aaccaccaag gaaacctact ccaaaatga aaaaaaaaaa 360  
 aaaaaaa 367

<210> 101  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (66)..(66)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (872)..(872)
<223> n equals a,t,g, or c

```

```

<400> 101
ggcacagcgc gaggctgggt cccggcccag gagaaggaag tcgctgaagg cagtggccat      60
gctggncgtg gaaatgggag gcggttgca ggggtctatg gggcccggtc ctggatactc      120
ggcaggaagc cgtgtctgca gaggtcctc cctgcctcaggtggccccgt tcaaccccag      180
ccgtgccccat ctctgccac cgctgtcgg tgggggttta aattcgggtg ggctttctgg      240
ggtgcagctc agcaccccc cttatgcaga ctgggagggg gtcgggcagt cccctcagcc      300
acgaggaccc tggatgggtt ctagtctact tgggaccgtg gggcctggct gcgtactgag      360
tgggtgcccc acagtcaagg ccaacggggg ctccccctgc tctgagatgt tgggagaaag      420
gcggcttctg gaaccttccg tgggacccgt aagtggctgt ccagaaaaggc gggaggggtg      480
gcacggggca cggggggcag ctgggggtcgt cgtaaagggt cacgcatccg tacagttgaa      540
tttctttct cttatcatgt tttaccacc ttgtccttt tttccccaat tgtgctttt      600
catttttttc cttggcaaat gtaaaactcag cctttcattc atgacgtgtg aaatttcagt      660
ttctctggag tttgtcagac ggcgtgggaa ccacgcctga aactcaggta ataggaggaa      720
aaaaaaaaaa cttaaaaaaaa tttttaaaaa acataaaact actctctacc tctgctggsc      780
cagcctgtct cgccttgcc gcggcagggt ggctgtaac aatttcagtt ttcgcagaac      840
attcaggtat taaaaggaaa aaaaaaaaaa anggg      875

```

```

<210> 102
<211> 1283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```

```

<400> 102
ngggcgttcc atcgaggcct ttgatcgca catcgacctg ctggtgtcgc gcctgcgcca      60
gaagctggg gatgaccca aggtccgca attgatcaag acggtacgcg gcgaaggcta      120
cctgttcgac gcccgggata tcggttgatg cgcgcgccct tcaacacgct gttcgggcga      180
ctgttcggcc tgttgctggt ggcgattgtg ctggcccatg tgetggcggt cttctgggtc      240
caccactacg gccgcgcgc accacccgc gcggccttcg tcgaacaacc agatggcagc      300
ctcacgccct tgcgcaaagc gcctcgcccc tggctcggcg gcccggtggt gccctgaca      360
tttcaattta tctcgtgat catcgtgcc tggtagcgcg ccaaactgct gagccggcca      420
atccagcgcc tgagcgcagc ggccgagcgc ctgagcgctg acctcgacag cccgcccctg      480
gtggaacccg gccctcgca agcacgccaa gcggcctoga ccttcaacct gatgcaaaag      540
cgcacccgcg aacaagtcag ccagcgcgca cgcattgctg gcgcggtctc ccacgacctg      600
cgaccccgcc tctcgcgcct caagttgcgc ctggaacaaa tcgaagacc caagctgcaa      660
ggccagatgc gccaggacct ggacgacatg atcggcgatg tcgatgccac cttgagctac      720
ctgcacgaac agcgcaccag cgagacacgg cattggctcg atgtacaggc gttgggtgaa      780
tccctgagtg aaaacgccc ggacaaggc cgcgacgtgc agtttgccgg cacctgtaca      840
ccgttcgagg tacagcgat ggccctgcgt tcatgcctga acaatttgat cgataacgcc      900
ctgcgctatg ccggcaccgc ccgggtggaa ctggccgaca gccgcggtgc gttggtaac      960
cgggtgatcg accacggccc gggaatcgcc gccgataagc gcgaagcggg gttcggccg      1020
ttctttcgcc tgggaagggtc gcgcaaccgc aattccggag gggtcgggtt ggggatgacc      1080
attgccaggg aggccgtcga gcgactcggc ggccacctga gcctggaaga tacaccgggc      1140

```



|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| ggtgggttga | cggcgggtgat | gtgggttgcgc | aggggtttaag | cactcccatt | tacctgacgc | 1200 |
| gccgcgatcc | aaatgtggga  | gctggccttgc | ctgcgattgc  | gcagtgtcag | tcgatgaagt | 1260 |
| gttggtctgc | ccaccgctat  | cgc         |             |            |            | 1283 |

<210> 103  
 <211> 2777  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 103   |             |             |            |             |             |      |
| ggcacgaggg  | gacatgtctg  | ggcacaagga  | aaggcaagca | atggaggcag  | caaggccct   | 60   |
| tggcagcaag  | tttccatcac  | ctttgcctgc  | cagtgtgtga | gaggcgaga   | ggggcagtga  | 120  |
| gcaggtgaca  | tgcagcttcc  | agataccac   | acactgcttt | tctcccgccc  | agctcccacc  | 180  |
| ccagtttaatt | gagatgggat  | tgtttctctt  | tctggtttct | tcctaagccc  | ctctctcata  | 240  |
| ttcctgggtg  | gcttatggc   | tggcacacct  | tgtgaaacag | aaaccaagc   | tcctcatttc  | 300  |
| ggagctggga  | tttcgattgg  | ctatctgcct  | ccctaacca  | gctgtccctt  | ccacctcatc  | 360  |
| cctagagtca  | ccctctggtc  | tcatcaacat  | ccagtggga  | tttcagtggc  | ccaggatcct  | 420  |
| tcaaattgca  | gatataaagc  | atcaggaccc  | cacacctggg | atggaagct   | ctaggaatta  | 480  |
| atgaagcccc  | agtagagggtg | agggtaaacc  | taaaacgggc | tggatagggc  | ctctcccaag  | 540  |
| gccctatgga  | aaggtgatgg  | gaaactgggg  | gctgaggcct | catcctagga  | gaccctgga   | 600  |
| gggaccact   | taccctagat  | aggcagcgga  | ggccagaaac | tggaaaacag  | ccactcattg  | 660  |
| tcggtgcatt  | acogtgagca  | ccacctgtag  | ggactctgtt | ggcctccagc  | cgctcgcaca  | 720  |
| cgttcctgac  | aaccacaaaa  | gttcatttga  | gggtgccag  | tcagctgact  | ttgcttccac  | 780  |
| caggaatacc  | cacctggccc  | tggtccttct  | gctgagctac | aggaggcatt  | cccagggctc  | 840  |
| tagcaaaaa   | aacccctcaa  | ataggcccag  | tgccataaac | tcagagagg   | tttcagatgg  | 900  |
| tattggagac  | ccagagaagt  | taactgactt  | tcccaaaaag | caccactgt   | aaatggcaga  | 960  |
| catatctcaa  | acccacatct  | gagcctgagt  | ccagtgtttt | ttctctagta  | tcacattgt   | 1020 |
| cccttaaatg  | tgtttgacac  | atcatagtgt  | acaaatcacc | ttcactcata  | ttctctcact  | 1080 |
| actcatcagt  | catgaattca  | gccaatgaga  | agggtcaga  | gagggttaact | aaccagccac  | 1140 |
| gctgtttaca  | tggggcatag  | actgcttcat  | gaacgcttga | ctgcagcttt  | gccttccctca | 1200 |
| tgccctcaaa  | aaggaaggag  | ctgaccaaag  | cttactatac | catagctggg  | gtctgggacc  | 1260 |
| cccagccagg  | tctcacagat  | gatctgggaa  | tggcctcct  | gttgccttca  | gggggtccggc | 1320 |
| agtcacacag  | aagagtcagg  | ttgaaatctt  | ggcaagactt | tggtgtggct  | ttgggaactg  | 1380 |
| ggtttaacct  | cttggggact  | tcaccaagac  | agtggcaaa  | gacaccacct  | acagcttcca  | 1440 |
| gtgcctctct  | actctccac   | ctgtgctcct  | gggttgaat  | gagaccagaa  | gcagctggga  | 1500 |
| caagatttgg  | aaagataaag  | agagccagga  | gacaagacct | tgagagaagc  | agaggtctgg  | 1560 |
| ctggctgctg  | ccctctgggtg | gtgacaatgg  | tgacactgta | aacccctctg  | tcaaggtgac  | 1620 |
| actctcccct  | gactattcag  | gagggagaag  | caatcgcccc | aggacagaga  | cggggacatc  | 1680 |
| ccaggagcag  | ggtacaggct  | ctagcaatat  | catcttgcg  | gtactccctc  | cctcacaaca  | 1740 |
| accagaccac  | acatgtgtta  | aatccttctg  | cagggatgga | atgcggctct  | cagttttttc  | 1800 |
| caagaacttc  | taatctagga  | attaggagag  | gtgggtcaaa | ctgaatgaag  | cagtgggcaa  | 1860 |
| agagaggggtg | agggatggga  | gagaagacag  | gtcaaggagg | aggtgggaga  | gaaggggagg  | 1920 |
| gttgcatgag  | ggacaaggaa  | atggcatggg  | ttggagctgt | ccccagtcct  | tatctggagg  | 1980 |
| gacttccaac  | cttcagatt   | cccagctgat  | atcacatgtc | caacctcagc  | caggcgattt  | 2040 |
| ataagagaaa  | ggtcagggat  | gccactcccc  | ttgtaaaagc | aaacatgcag  | catctggaga  | 2100 |
| agcaaggggt  | agatacaaa   | attccaagg   | gtcaccaaca | gtaaccaga   | gaccagcttt  | 2160 |
| catcctatag  | agaagggtct  | cattactttg  | cccttccctc | cttcccttcc  | ctctccttcc  | 2220 |
| ttccttccct  | ccttccctcc  | ttccttccct  | ccttccctcc | cttcccttcc  | cttccctttt  | 2280 |
| tctattctat  | tgatcattaa  | ttatgggtcaa | aacttctcat | tttttcagcc  | aggcaggtgg  | 2340 |
| gcttaagcct  | gtaatcccaa  | cactttggga  | ggcgaggcag | gcagatcact  | taagtctagg  | 2400 |
| agtttgagac  | cagactgggt  | gacatggcaa  | aaccctgtct | ctttaaaaac  | aaaaattaag  | 2460 |
| gccgggctgt  | gtggctcatg  | cctgtaatcc  | cagcactttg | ggaggccgag  | gcaggcgaat  | 2520 |
| cacgaggtca  | gaagatcgag  | ccatcctgg   | ctaacttgtt | gaaacctgt   | ctctactaaa  | 2580 |
| aatacaaaaa  | attagctggg  | tgtggtggcg  | ggcgctgtga | gtcccagcta  | ctcgggaggc  | 2640 |
| tgaggcagga  | gaatggcgtg  | aaccggggag  | gcggaaactg | cagtgcgccc  | agattgcgcc  | 2700 |
| attgcattcc  | agcctggggc  | acagcgagac  | tccgtctcaa | aaaaaaaaaa  | aaaaaaaaaa  | 2760 |
| aaaaaaaaaa  | aaaaaaa     |             |            |             |             | 2777 |

<210> 104  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

```
<400> 104
ggcacgagct gggcctccag gttcttcacc tgtcacatga tcattttaca tattgtggtc      60
tgttttattta ccatacagcat catagaagag caaaaagaag aaatactgtg ctccactaaa      120
agccaggctg agaaaacagt tactcacatt gagcagtgag tgaccactag gtgggcattt      180
gttcatagct gcatggagaa caagtgccca tatacatctt tctgctgatg cagcctctaa      240
atthttgaatg catcagtttt ttaaaactgca ttgagcaata ttccgtgggt gcatccata      300
atagcgtaac tatthtacgcc tgtgacagag agggaaaactg tatggatata agatatcttt      360
aagagctttt taatctttta tcaagttagt acttcttaag gatgattaag gccaggcagt      420
ggctcacacc tgtaatccca gcattttggg aggccaaagt ggggtgatcc ctttaaggta      480
agagttcaag gccatctgga ccaacatggg gaaaccccat ctctactaaa aatacaaaaa      540
ttagctgggg tgtgggtggc ggcgcctgta accccagcta ctcaagaggc tgagacaaga      600
gaatcgcttg aagccaggag ttggagattg cagtgaagca agatcatgcc acttcactcc      660
agcctggaca gcagagtggg acttcttctt aaaaaaaaaa aaaaaaaaaa      710
```

<210> 105  
 <211> 1540  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (651)..(651)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1124)..(1124)  
 <223> n equals a,t,g, or c

```
<400> 105
agaattcggc acgagggcat attactttcc taggactgcc acaacaaact attaccaact      60
agcggcttaa aacaacaaga gcttattcct cacagttctg gaggccagaa gtccaaaacc      120
aaggtgtcag gaaggtcatg ctctctccaa agtctccaa gatgtcctt ccttgccctcc      180
tccagcctct ggtcgtggcc aacatccga gggttcctg gcttgagat gaatcactta      240
atccaccccc catcatcaca tggcagtccc cctgtgtagc tcagctctgt ccaaatttcc      300
cctttcctac aaggacatta gtcactggat tatgacacag ctcatcttaa ctggattata      360
tctgcaaaga ccctgttata tctgcaaaga cgagttaaca ttcacatgtt ccagggggaga      420
tatgaatttt aaggggacag tattggacct agtataggag ggcaggcagc agcaggggag      480
ccagggaggg ctggcctgac ttgagcctgt ttgaaaagca tcatcctcct accaagactg      540
ggggctgctg gttctgacaa ggtttgcagg atcagctggg atgatgggtt scamccaytc      600
cttcgagyta cgttggacct ctgggcccac tttagcaag gagcttgccc ntycgtgtag      660
ctctycgtca gtgtgggaaa atctgartga gccagagaag ggtgagattc cccctgcaga      720
gcaggcagta ctgagcaaat ccaggatcca gaactccagt tctaatactg gctcttgctt      780
gctttcctgt gtgacctgtg ggaagtgtt ttccctctct gagactctcc ttccccatgt      840
gagtcacaag ggctgggcct agctgacccc caaggccctt acatgagtgg atagttgcat      900
tttaaacctg ctgctcccca ggataaggga gtcaacccca aggagactgg ggtttctcct      960
gagcctggcc gtgtgggatg agcactcact gtggaaaaag ctggccactt cttagccctt      1020
gtcatgggca gaaaacatgc ccctccagc ccaccagcac caacacacag ccaagctcac      1080
tgthttcattt ttagagagaa atcagggctt tcgggtgcagc tgantgacac agacaagggg      1140
cggggggaca tgaaagggag cgggcaagga cggaaattac acttctccta gcaacctggg      1200
tctgcagctc ctaggcctgg ggccgcgtga tacatgcat tcccaattaa cgggatgta      1260
```

|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| aatatacccc | ggctcagcct | gccccatgct  | gagccccgcc  | tggggcagtg | cagggagcca | 1320 |
| tgtgatggtg | tagagcactc | tgcaacaccc  | catattcatg  | ttcccactcc | tagggccccg | 1380 |
| ctcgggtccc | aggaggccag | agcggctcctg | ccctctgcct  | gagcatggct | cagctccagc | 1440 |
| ctccacttgc | cctcccctat | gdtggccagc  | tcgggggtct  | gcaggcagcc | tgtggggcag | 1500 |
| ggccagttgg | ccaaactctc | caagccagaa  | gccccctcgag |            |            | 1540 |

<210> 106

<211> 1428

<212> DNA

<213> Homo sapiens

<400> 106

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| agcagggttt  | gagcctcctg | gagacattga  | at ttgaggat | tacactcagc | caatgaagg  | 60   |
| cactgtgtca  | gataacagcc | tttcaaattc  | cagaggagaa  | ggcaaaccag | acctcaaatt | 120  |
| tgggtggcaaa | tccaaaggaa | agttatggcc  | gttcatcaaa  | aaaaataagg | tactgatggt | 180  |
| tggcgtgaaa  | tgagttttct | aaggtgtgga  | gattttgact  | tgatctttta | gtcttagaaa | 240  |
| aactaagatc  | ctaaacctgt | agt ttcagaa | tgcaaaagaa  | gaagctagtg | tgctacctta | 300  |
| tgttgagaca  | gtattttctt | ttgggtgggg  | tatctttgcc  | atggccctgt | gtcttatttc | 360  |
| agatgcatta  | tcctcgtacc | gtgactccca  | cactaacaga  | gtactgacct | ctccaccgtt | 420  |
| tcgcctcatg  | cctttccctc | cttcctctcc  | tagactgctg  | gttaccttgg | cgggagaga  | 480  |
| ggatgtagtg  | ggacattcct | gtaacacttt  | atccgcacat  | ctactggaaa | tcgttaccat | 540  |
| gttaataact  | tggttttgaa | ttcatgttaa  | catgtgtacc  | catgaacatt | tttcattttc | 600  |
| ttttcatagt  | gcgatacata | ggtgcatgac  | agcattaacc  | tggggacgta | gaatatgac  | 660  |
| aaggcagcat  | tactgtttta | actttagaat  | gacttactat  | ttattaattt | aaacagactg | 720  |
| ctgtttccac  | aaccttagca | ttgaaggctc  | ttcattttct  | cccatcaagc | tatgttagtt | 780  |
| taggtaatgt  | agaaatattt | accctctggc  | ttaagctggg  | ttagagtaac | taactagagc | 840  |
| tatagtttgc  | atgggaaagt | ctgcacgagc  | ttcttgtcag  | atattttttg | ctcttctgtc | 900  |
| gcattactta  | ctaaacctcc | caactctcat  | catattcttc  | atttaaccac | ctcctacatg | 960  |
| ttttcttttg  | gaccatggcc | taaaatttaa  | ttgtttgtgt  | tttacttgcg | ttggatttca | 1020 |
| aatattattt  | gatgcttatt | tttgttttgt  | gtcttcttgt  | ttctgatttt | tactctgtca | 1080 |
| cggctccatc  | tcttacatgt | agcttatgtc  | ccttttaaca  | tccccccatc | agcctcccc  | 1140 |
| tccccctcct  | gcctctgcct | caccctctgc  | tgttcccaac  | ggccccaggt | ctcccaagca | 1200 |
| gcaaaaggaa  | cccctctccc | accgcttcaa  | cgagttcatg  | acctccaaac | ccaaaatcca | 1260 |
| ctgcttcagg  | agcctaaagc | gtggggtaag  | ttctgtctcg  | gatcctgtc  | tctctggcgt | 1320 |
| gctttgggtg  | catgtttggg | tctgcataac  | taattttggt  | tgtgaatgaa | tccattgtgt | 1380 |
| tttcccataa  | catataaaaa | agttaaaaaa  | aaaaaaaaaa  | aactcgag   |            | 1428 |

<210> 107

<211> 3061

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (2755)..(2755)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2849)..(2849)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (2919)..(2919)

<223> n equals a,t,g, or c

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 <222> (2983)..(2983)  
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<220>  
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 cctttaaacc aactcaagct gatctttcct atctagcctg ctgtttggct gtactcatgg 2160

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| gctttggttaa | tatctcctaa  | aaatgaggtt  | ttggtaattt  | ttcctatgca | ttgggcaact | 2220 |
| gtgatcgtga  | ccactgtgct  | gtcttgctcc  | agccactgcc  | ctgcctcag  | catatcaggg | 2280 |
| cagcctgtgc  | tggttgcaat  | actgtggtgc  | ttggggccact | gcctgagagg | agccaggttt | 2340 |
| gtgtgtgtct  | gcatgtgtgt  | gtgtgtgtgt  | ttgtacagat  | tcaagcaatg | gatgcaagga | 2400 |
| acatgctgta  | tgtaatagaa  | gaaagaagtc  | cacgttttctg | gcagaagtag | tgagtcagtg | 2460 |
| tggaaagagag | gtgaggggtgt | gctttacttt  | ttgataaaga  | gaaagatggt | tactcataaa | 2520 |
| cccttcaaaa  | ggtattaaca  | aaatgtttac  | caaacctatt  | gctttatttt | aaaaacataa | 2580 |
| tttgtgtttt  | ctatttgtaa  | gatctgacat  | ttcgaggcaa  | taaaaacttc | tcagaaaaaa | 2640 |
| aaaaaaaaaa  | aaaaactcga  | ggggggggccc | ggtacccat   | tcgccctata | gtgagtcgta | 2700 |
| ttacaattca  | ctggccgtcg  | ttttacaacg  | tcgtgactgg  | gaaaaccctg | gcgtnaccca | 2760 |
| acttaatcgc  | cttgcagcac  | atcccccttt  | cgccagctgg  | cgtaatagcg | aagaggcccg | 2820 |
| caccgatcgc  | ccttcccaac  | agttgcgcng  | cctgaatggg  | cgaatggcaa | attgtaagcg | 2880 |
| ttaatatttt  | ggttaaaatt  | cgcgttaaat  | ttttgtttna  | atcagctcat | tttttaacca | 2940 |
| ataggccgaa  | atcggcacaaa | tcccttatta  | atcaaaagaa  | tanaccnaaa | tagggttnaa | 3000 |
| tgttgttcca  | tttgaacaaa  | gagtcncta   | ttaaagacgt  | ggactccacg | tcaaagggcg | 3060 |
| a           |             |             |             |            |            | 3061 |

<210> 108  
 <211> 1691  
 <212> DNA  
 <213> Homo sapiens

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| gcgcgcgggc  | gctcggcggc  | gcgctcttcc  | tgctgtctct  | cgcgctaggg  | gtccgccagc  | 120  |
| tgctgaagca  | gaggcgggcg  | atgggcttcc  | ccccggggcc  | gccggggctg  | ccatttatcg  | 180  |
| gcaacatcta  | ttccctggca  | gcctcatccg  | agcttcccca  | tgtctacatg  | agaaagcaga  | 240  |
| gccaggtgta  | cggagaggta  | cagccccgac  | gggccccggg  | cagggagggc  | cgccaggctg  | 300  |
| gccccgggctg | gccagggcct  | tcctggttgg  | ættatggcc   | gccccctgggc | cgactagtcg  | 360  |
| ggacctctcc  | gtgtgcgggc  | tgccctttga  | gggacacccg  | cttcccgggt  | ctggaaggga  | 420  |
| gaagtccctcg | acgcgcgtgcc | cccttgcaagg | gggagccccg  | cccctgccgg  | tgacccactc  | 480  |
| cgggcccagg  | ctccgaggcg  | atccagtcct  | gattttcccg  | ctaccgctcg  | agctcttgct  | 540  |
| cctgcgcctg  | cgcggtttgg  | ctcgccagcc  | gcgcgcgccac | ttcaggtcca  | gggtggacgc  | 600  |
| atgccctcag  | gtgcgggcgt  | cttgcgagtc  | ggcctcgacg  | ctctgtggaa  | gctgcacgcg  | 660  |
| gcttgtcggga | aaatcaaggc  | gttctgagtt  | ctagatgggt  | aatagcaggt  | tcttcgggtgt | 720  |
| ctgcagtcga  | cgaacgactg  | gtgtaggcgt  | ttgctgtgag  | aatggagaat  | gcaggggaac  | 780  |
| gcccctgact  | gagaagcggg  | ccctgggaaa  | cgattgtgaa  | cgcgatgaatg | aattgatgac  | 840  |
| taaaatccgc  | tgccgggggtc | ctacagcgca  | gatggtaatg  | ccgttctgac  | tggtcgggaa  | 900  |
| cggcacctta  | gcagatactt  | aaaaggcgcc  | ttctgtgtgc  | caactgtcact | gccaacttgg  | 960  |
| tgactcatth  | aaaactcata  | accagccggt  | gaggtcggta  | cttcgctcct  | cctcattctg  | 1020 |
| cggaggggaa  | agcagcacgg  | aaatgccctg  | tgactggcag  | cggaaaaggc  | gaccaccgct  | 1080 |
| tgtgtgtggg  | tgtcccgcag  | tccggagggg  | gcaggagttt  | ccacgggtcc  | tgggacagag  | 1140 |
| ctcacctgtt  | ttgttttgaa  | ttacacttat  | ttatatgcaa  | ctacaggcct  | gacgctagcg  | 1200 |
| gtgaagaagg  | cagatacagc  | cttttaagga  | gttggcagat  | gagtgggaga  | gagaaaaacta | 1260 |
| atctcattat  | cggccacagg  | ctgtggtcag  | tgttttgaag  | gaaaagtaca  | gggatgtttg  | 1320 |
| gcaactgtgg  | tatttcaggt  | ttgaccttaa  | atccttactt  | aaaccagttt  | tacaaggat   | 1380 |
| tggtctaggt  | gccccgggcg  | ggtggctcac  | gcctataatc  | ccagcacttt  | gggaggccga  | 1440 |
| ggcggggcgga | tcacgaaatc  | aggagatcga  | gaccgtcgtg  | gctaacacgg  | tgaaacccca  | 1500 |
| tctctactaa  | aagaatacaa  | aaaattggcc  | gggcgtgggtg | gcgggcacct  | gtggtcccag  | 1560 |
| ctattcggga  | ggctggggca  | ggagagtggc  | gtgaaccccg  | gaggcgggagc | tttcagtgag  | 1620 |
| ccgagatcgc  | gccactgcac  | tccagcctgg  | gcaacagagc  | cagactccgt  | ctcaaaaaaa  | 1680 |
| aaaaaaaaaa  | a           |             |             |             |             | 1691 |

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 <212> DNA  
 <213> Homo sapiens

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gttcaccggg tcttcaagtc ctcagccttc tggcccgmgg aagttaagca accaagaggc 180
gggcctaaga ccggaagcag gaaggagggc gcaggaagca gggcgccgca gcctgtcgtg 240
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cacgtccctg gcgttggcct ggtcacaagg ccgcatgg attacttgc cactggcag 1260
aaaatctact tctacagttg gggctgacag actcccgaa ggagggtgtg gggaggggtg 1320
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcgggc c 1412

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<210> 110
<211> 1489
<212> DNA
<213> Homo sapiens

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<220>
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<222> (7)..(7)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (345)..(345)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (549)..(549)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1477)..(1477)
<223> n equals a,t,g, or c

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<220>  
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 <222> (1488)..(1488)  
 <223> n equals a,t,g, or c

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 aactgcaaca agccgcgctg ggagaaatgg ttcatgggtga cgtttgcttc ctccacgctg 180  
 tggatcgcag ccttctccta catgatgggtg tggatgggtca caatcattgg ttacaccctg 240  
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 tgcattggcca gcctcattgt ggccagacaa rggatggggg acatngctgt gtcaaactcc 360  
 attgggagca acgtgtttga catcctgatt ggccctcggtctcccctgggc tctgcagacc 420  
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 atcatgactg agttcaacgt gtacaccttt gtgaacctgc ccatgtgcgg ggaccactga 660  
 accgccgggt gccacagatg gctcagctcc ttcttttctg tgcaatacga racccggccg 720  
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 gattacagag agcatttggtg attttggttg gtttgaggat gatgcctagg ttactgggtt 1140  
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 gacgcctcac taaagtctta tgggcgtncc ctgggggttg gggggcacia gggttttgag 1440  
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<210> 111  
 <211> 4463  
 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (4119)..(4119)  
 <223> n equals a,t,g, or c

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 gatgcccttt gcctttttct ttctggaatc agaaggcttt gctggcctga aaaagggaat 180  
 ccgagcccgcc atttttagaga ctttggtcat gcttcttctt cttgcgttac tcattcttgg 240

|             |            |             |             |              |             |      |
|-------------|------------|-------------|-------------|--------------|-------------|------|
| gatagtggtg  | gtagcttcag | cactcattga  | caacgatgcc  | gcaagcatgg   | aatctttata  | 300  |
| tgatctctgg  | gagttctatc | taccctatct  | atatctctgt  | atatcattga   | tgggatgttt  | 360  |
| gttacttctc  | ttgtgtacac | cagttggcct  | ttctcgtatg  | ttcacagtga   | tgggtcagtt  | 420  |
| gctagtgaag  | ccaacaattc | ttgaagacct  | ggatgaacaa  | atttatatca   | ttaccttaga  | 480  |
| ggaagaagca  | ctccagagac | gactaaatgg  | gctgtcttcac | cggtggaat    | acaacataat  | 540  |
| ggagttggaa  | caagaacttg | aaaatgtaaa  | gactcttaag  | acaaaattag   | atccttggag  | 600  |
| ttctttttct  | gtgcttcagt | ctcctgtctg  | gcactttgct  | gcacagactc   | cagctgacat  | 660  |
| agtctcccca  | gattcccat  | tcatgctctc  | aactcaagg   | atgagctggg   | ctcagcttgt  | 720  |
| gttcctcctt  | cctgcatcac | ggcctggaaa  | ctctcaagac  | aagaggcgaa   | aaaaggcttc  | 780  |
| agcatgggaa  | agaaatttgg | tgtatcccg   | tgttatgggt  | ctccttctta   | ttgagacatc  | 840  |
| catctcggtc  | ctcttgggtg | cttgtaatat  | tctttgccta  | ttggttgatg   | aaacagcaat  | 900  |
| gccaaaagga  | acaagggggc | ctggaatagg  | aaatgctct   | ctttctacgt   | ttggttttgt  | 960  |
| gggagctgcg  | cttgaaatca | ttttgatttt  | ctatcttatg  | gtgtcctctg   | ttgtcggctt  | 1020 |
| ctatagcctt  | cgattttttg | gaaactttac  | tcccaagaaa  | gatgacacaa   | ctatgacaaa  | 1080 |
| gatcattgga  | aattgtgtgt | ccatcttggg  | tttgagctct  | gctctgcctg   | tgatgtcgag  | 1140 |
| aaacttgggg  | cttcataaac | ttcacttacc  | aaatacttca  | agggattcag   | aaacagccaa  | 1200 |
| gccttctgta  | aatgggcatc | agaaagcact  | gtgagacgca  | cagacggcgt   | cttctgccac  | 1260 |
| caagagaccg  | agaactccag | attcacgaca  | ttcctgtccc  | atgtagaagc   | atttccattc  | 1320 |
| awccgtggsc  | cctcttcaga | acctagacct  | atcagtgcca  | tttttttttc   | ataatctacg  | 1380 |
| aagaacttgg  | ctatggctga | tcttttttaa  | atttaacttt  | ctgatggacc   | ctgtagtttc  | 1440 |
| cagttaagtg  | cagattcctt | acagacatat  | agaacagcgc  | attcttctgt   | agacatttgc  | 1500 |
| tcatgttggg  | aaatacaatc | acctatatga  | aaaaatttgt  | ttcacctgat   | atgaaaatgt  | 1560 |
| tagaaaaggc  | aaactccggg | acttctaaag  | atttacttaa  | atccatttat   | gtactttatt  | 1620 |
| cagaatgtag  | aagctgactt | gaaaggcatc  | cttggtacta  | agtgaagctt   | attcagaaaa  | 1680 |
| tgcatttttc  | aaatgcaatg | gcaactgctt  | gtagatatca  | tttttgcatg   | gtatgttgga  | 1740 |
| gctgtaattg  | ttgcaattat | gtttcttatt  | tccttaaaag  | caaaaagcgt   | agtttctgat  | 1800 |
| ttatgttata  | gaatgatact | gattagactt  | tgagccaagg  | ggaaaatact   | aaattctttt  | 1860 |
| aaacctggag  | ccttagagag | ccacaggaat  | atcttctgtt  | gtacagtcta   | ataagctgtg  | 1920 |
| gtaggaagta  | tcatgtaatc | acagtttaat  | gacagtttat  | gtatatatat   | aattagtat   | 1980 |
| tcctctgat   | aacatagttg | ccagtgttta  | atacacttgt  | aacttggatt   | tttaccttat  | 2040 |
| aggctatatg  | tatactcagt | tttttaaaag  | atttttttca  | gagatcactt   | aattccccat  | 2100 |
| gcttctgcaa  | tgcatataaa | aactataaat  | gccgagtggg  | agaaaactcct  | ctttcttcat  | 2160 |
| agtcctcagg  | ctttgggtac | atttgcatat  | gccatttgaa  | gcctccagct   | tttaccagtt  | 2220 |
| taacatccaa  | agttcacagc | atcagcattc  | atggtgttaag | aacagttttg   | cagtataaca  | 2280 |
| cgatctgata  | atcattcagt | tattaaattg  | taaataatta  | ttgggatggg   | ttcttggcct  | 2340 |
| taagtcact   | gaataaaaac | tatgaaattg  | cactctgtgt  | caaccatccact | aggataga    | 2400 |
| ataccgaaat  | ctgtgcatgc | aaaaatagga  | gatgggcccc  | tttgacacac   | attcgtagtt  | 2460 |
| atgcagtctg  | ctatataaat | atgttcacat  | gcactgtgtg  | tatgaaaata   | gatggctctg  | 2520 |
| gttcagacaa  | aagtaaaaac | tttttttcaa  | attgttacat  | ttaaagggtt   | tctgggagaa  | 2580 |
| atttatgaaa  | cgaggctgtg | gtctatttga  | catcagaaat  | ttccacttta   | aaccaaaata  | 2640 |
| ataagaaaact | ttaatctgta | tattttacaac | ctttgttgag  | tacacttccc   | ccttattttat | 2700 |
| acgtctgcat  | ttccttccga | gtttcacatc  | tttctaaaaa  | gcagcttggt   | tttaaaataa  | 2760 |
| aagaacattc  | attttgtgat | tctaaacaag  | cttcagtaaa  | tacaccagt    | atagtactgg  | 2820 |
| tgaatttctc  | agcataaaat | cgacatacct  | aaaaagttaa  | taaaattcag   | ctcttttcca  | 2880 |
| atttcattgt  | tatgcctatt | gaagtattaa  | ttgccagggt  | tgatttttag   | tgaagcttgg  | 2940 |
| agtccatact  | ttgagcagac | caagtgaagg  | gaagaacaga  | aagaaaactca  | ggagtagagt  | 3000 |
| aatatcactt  | ctgcacttac | accactttca  | ggcacatcca  | aagagtccct   | agatacttgg  | 3060 |
| aaaaatgtctg | aaaattttta | agtaaaaatac | taaacttttc  | agtgttttagc  | tcaacttttt  | 3120 |
| gttcatttgg  | aagtttctct | ccatccgagg  | acttaagcca  | gttttggatt   | tgtaagccct  | 3180 |
| gagtacaata  | cacttctctg | aggcatcctc  | actgctgtg   | aagcaaagga   | tatgcatggg  | 3240 |
| gtggaaggac  | ggcttcgaac | ctgggactca  | tatgccttga  | gaacaaatag   | attgttacag  | 3300 |
| ccttggngtg  | ctgcgttaac | acggttcctc  | gaggtcttct  | ctgagcacat   | gcccaagcat  | 3360 |
| ctgcctctgg  | agagactgac | tccaaatgca  | ggtgcttcca  | ttggagctag   | gtcggaggct  | 3420 |
| gctttatatg  | acgaactccc | agaaatggat  | gccagaata   | cggaggccna   | aacgttctga  | 3480 |
| gcyctggta   | aggacagtcg | ctctgggggt  | cctcatttta  | cctgcagttc   | ctgcacgccc  | 3540 |
| agtgaagag   | aggagataga | ccctggaagg  | cagagctgca  | gatgctcatc   | atcagggtcaa | 3600 |
| ttctggagct  | acagttttgt | ttctgactgg  | atgggatgc   | accagtgact   | gtcacatcaa  | 3660 |



|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| gcagtccttt  | tattctctct | ccttttagtat | cgatttttaa | gggcattagg | cactatgggt | 3720 |
| ccagagtttc  | ttggggaaaa | cttgacagatt | cttattaatt | ggttctgcaa | tacttaaata | 3780 |
| aattatttta  | caattataag | ttttcagatt  | ataacatttg | tattaatttt | tactgatttt | 380  |
| ccaagatact  | tcttagattt | actattttacg | tagctttatg | tacattctct | gtaaaaatag | 3900 |
| acctctaaat  | atgaggcttt | acatgaaatt  | tgtacacaca | tacacactaa | tgtagctcc  | 3960 |
| ttaaattgct  | gcactaaggt | gctgggttagt | agagatggac | ggagcctctc | gcgttttgct | 4020 |
| ctcagatgtg  | ttaaaggcgc | acgtgtact   | gctctcagcg | gcagtgcggc | ctccccatct | 4080 |
| gctgggtgcc  | catggccctc | cctgcagcct  | cagtgatgna | cctcgtctgc | cmrgggacac | 4140 |
| aggttttcat  | catttacagg | stcttatgtg  | ctagttttgt | tggtagcacg | ttatttaatg | 4200 |
| cataaaggca  | gaattcttac | aagttttttt  | ttttaatgtg | aacatagatg | cagcaccga  | 4260 |
| tttttaaaact | tgaaaaaact | ggtataatgt  | taacttttaa | aaataacatt | tggacacact | 4320 |
| agtaattgat  | ttttgtttac | agattgtttt  | gtttacaaat | tgtagtctt  | tgttctatg  | 4380 |
| agatactttt  | agtgtgactt | tttaaattgc  | ttagaaatta | aaagtgttac | aaaaagtgat | 4440 |
| ttcaaaaaaa  | aaaaaaaaaa | aa          |            |            |            | 4463 |

<210> 112  
 <211> 1477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n equals a,t,g, or c

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| <400> 112  |            |             |            |             |             |      |
| tgcaggnacc | ggtccggaat | tcccgggac   | aaacagtact | gttgcacgtc  | gaattaag    | 60   |
| tctagctgct | gacattgaag | aagagcttgt  | ttgtagactg | aaaatttgcg  | atgggttttc  | 120  |
| actgcaacta | gatgaatcag | ctgatgtttc  | aggacttgct | gtgctgcttg  | tgttgttcg   | 180  |
| ttataggttt | aataagtcta | ttgaggaaga  | cctactcctg | tgtgaatctt  | tgcaaagtaa  | 240  |
| tgctaccggg | gaagaaatat | ttaactgtat  | caacagtttt | atgcagaaac  | atgaaattga  | 300  |
| atgggaaaaa | tgtgttgatg | tttgtagtga  | tgcttctagg | gcagtggatg  | ggaaaattgc  | 360  |
| cgaagctgtc | accttaataa | aatatgtggc  | tcccgaagc  | accagtagtc  | actgcctatt  | 420  |
| atacagacat | gcactggcag | ttaaaataat  | gcctacatct | ctaaaaaatg  | tgtagacca   | 480  |
| ggcagtacaa | atcatcaatt | atattaaagc  | tgcaccacat | caatccagac  | tattaaaaat  | 540  |
| tttatgtgag | gaaatgggtg | ctcagcacac  | agcacttctt | ctaaatacag  | aggtgagggtg | 600  |
| gctttctcga | ggtaaagtgc | ttgtgaagact | ttttgaactt | cgctcgtgaac | ttttggtttt  | 660  |
| catggattct | gcttttgac  | tatctgattg  | tttaacaaat | tcactctggc  | tgctaagact  | 720  |
| tgcatactct | gcagatattt | ttactaaatt  | aatgaagtt  | aatttgtcaa  | tgcaaggaaa  | 780  |
| aaatgtgacc | gtttttacag | tatttgataa  | aatgtcgtca | ttgttaagaa  | aattggaatt  | 840  |
| ttgggcctca | tctgtagaag | aagaaaactt  | tgattgtttt | cctacacta   | gtgatttttt  | 900  |
| gactgaaatt | aattctacag | ttgataaaga  | tatttgcagt | gccattgtgc  | agcacctaag  | 960  |
| gggtttgocg | gctactctgt | taaaataactt | tcctgtaaca | aatgacaata  | atgcttgggt  | 1020 |
| tagaaatcca | tttacagtta | ctgttaaacc  | agcttcatta | gtagcacggg  | actatgagag  | 1080 |
| cctgattgat | ttaacatctg | attctcaagt  | gaagcaaaat | tttagtgaac  | tttactaaa   | 1140 |
| tgatttttgg | agtagcctaa | ttcaggaata  | cccaagcatt | gcaaggcgtg  | cagtgcgtgt  | 1200 |
| acttcttcct | tttgctacaa | tgcacctgtg  | tgaacggggg | ttttcatatt  | acgctgcaac  | 1260 |
| aaaaacaaaa | tataggaaaa | gacttgatgc  | tgcacctcat | atcggaatcc  | gacttagcaa  | 1320 |
| tattacacct | aatattaagc | ggatatgtga  | taaaaagaca | caaaaacact  | gttctcatta  | 1380 |
| aaattggagg | agtttgcatt | tctcatgata  | accaaattga | agatgaaaat  | aaaagatgat  | 1440 |
| ttacttcaaa | aaaaaaaaaa | aaaaaaaggg  | cggccgc    |             |             | 1477 |

<210> 113  
 <211> 1984  
 <212> DNA  
 <213> Homo sapiens

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<400> 113
ccacgcgtcc gcttgaatct atattttctaa ccacagtgac ttcagtaaaa ataccgtata      60
atgaacathtt cagctttcttc ttactttactc gagaggtttat tgcaaatctt aaggatttta      120
ttataaagat ttttttttta gtttggtagc acatttttgta caaaaatgt caaacactgt      180
gctgtaagaa tatccatgtt ttagaaaatg tccacttttc agataatata atgcctacca      240
ttatactaac agaatacatat ggtagttgat ttattttttt atttattatg tatatttttg      300
gtattgtggg ttcttgaggc aatgataaaa cacttaatgt attctgacat gagtgtctta      360
atagcctcct tctcctcatt tttaaactgc atacattact ttcaaaatag gtatagatat      420
tctgtcccg ctttttgagct attagcctgt tccgtgttcc ctttgtcacc taagcaaggc      480
tttttctgag aaggtagtga atggtttcaa atgttgcata ctataagaat aatcattggg      540
taactgttgt ttagaccaac acttagaaat actatatttg tgccttttca tttttaattt      600
taatgttgtt tgatatttgg agcacaaaata atgaagggtgc cataatatgg ctgccaatg      660
ttacctcctt gaatagtcac gtgtcattgt cttgaattgg taattggaga accttgcatg      720
aaatatgtga tcgtgtgtgt gtgtgtgtat gcgcgtgtgt gtctgtgtgt ttgtgtacat      780
acctgtattt gcttggggct tgtgtgtggt atgtttacaaa gagtgaattt ctggaaatag      840
aaatcagtta aatgtttgaaa gttcaggtta gcagaaaatat ttcattttaa tatgctttac      900
tttgaggagc aattgattaa cagaggaaat gataattttc aaaaatgtga tcaatttact      960
gcatgatgaa atgtgaaaac agtgcctttt taggacatca attatgataa aattgtttta      1020
aaatattaac aaagatctca aaaagtgtgc atgaacatta ttcattttatt tttaaactgg      1080
atctaaataa gagcttagat ggccaaaatt agaattaata atatacccat ttaaattttg      1140
ttcataaatt taaaatctta atcagaattc tttataaaat gtgggtcata gatatgacct      1200
agtgttacta aaatagaaca gggattgtga aaatccagct caacatactt aagtatactt      1260
ggcttagagc caagtatact tgaagagggtg aattattctg acttggacat gcatgctctt      1320
tgatggataa aataaaaata ttcaatttat tcttacaaaa gaagggtggg ggggtgagtgg      1380
gttcgtttta gtgttctcag attataaaga cagctataaa gacagcactt tccgcacaca      1440
aagtgtatht tacaacacct ttttatacaa attaatgagc tctactttat ttaagtgttc      1500
atggaatgat gttaaatttta ggtccagttg aacaaatatt gagtgcctat catatgcaag      1560
actaactcct tactaggaat gaaatcacac agtgtcttct gtttgcagta tgtgaattt      1620
atgtttgaaa agaaattatt atattttaa ttttttggtg tcagagttta tcattgtata      1680
ctgtaaccca gtaaattttg cattcagttt taaaaaatga agatgtaact tacctgagtc      1740
tcatttttga aaatgaaatt ctgcaaaaat tattttaaaa ttagttcttg gggaaattga      1800
ttttcaagat tcaagtgtat aaaaacttat attgaacttt tcagcctcgt ttttaattag      1860
ctgatgttaa tgataagata cataatacat gtatcttggt gctgaaaata ttttttgcac      1920
ttcaacacat tgagttaaaa taaagttggt actacttatt caagattaaa aaaaaaaaaa      1980
aaaa

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<210> 114
<211> 1513
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1463)..(1463)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1490)..(1490)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1503)..(1503)
<223> n equals a,t,g, or c

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<400> 114

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|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gggcctcagg  | gacccccattc | cccagagagac | ggcaccatga  | cccagggaaa  | gctctccgtg  | 60   |
| gctaacaagg  | ccoctggggac | cgagggggcag | cagcaggtgc  | atggcgagaa  | gaaggaggct  | 120  |
| ccagcagtg   | cctcagcccc  | accctcctat  | gaggaagcca  | cctctgggga  | gggatgaag   | 180  |
| gcaggggcct  | tccccccagc  | ccccacagcg  | gtgcctctcc  | accctagctg  | ggcctatgtg  | 240  |
| gaccccagca  | gcagctccag  | ctatgacaac  | ggtttcccca  | ccggagacca  | tgagctcttc  | 300  |
| accactttca  | gctgggatga  | ccagaaaagt  | cgtcgagttc  | ttgtcagaaa  | ggtctacacc  | 360  |
| atcctgctga  | ttcagctgct  | ggtgaccttg  | gctgtcgtgg  | ctctctttac  | tttctgtgac  | 420  |
| cctgtcaagg  | actatgtcca  | ggccaaccca  | ggctgggtact | gggcataccta | tgctgtgttc  | 480  |
| tttgcaacct  | acctgacctt  | ggcttgctgt  | tctggaccca  | ggaggcattt  | cccctggaac  | 540  |
| ctgattctcc  | tgacctgtct  | tacctgtctc  | atggcctacc  | tcaactgggat | gctgtccagc  | 600  |
| tactacaaca  | ccacctccgt  | gctgctgtgc  | ctgggcatca  | cggcccttgt  | ctgcctctca  | 660  |
| gtcaccgtct  | tcagcttcca  | gaccaagtcc  | gacttcaact  | cctgccaggg  | cggtgtcttc  | 720  |
| gtgcttctca  | tgactctttt  | cttcagcgga  | ctcatcctgg  | ccatcctcct  | acccttccaa  | 780  |
| tatgtgccct  | ggctccatgc  | agtttatgca  | gcaactggag  | cgggtgtatt  | tacattgttc  | 840  |
| ctggcacttg  | acacccagtt  | gctgatgggt  | aaccgacgcc  | actcgtctgag | ccctgaggag  | 900  |
| tatatTTTTg  | gagccctcaa  | catttaccta  | gacatcatct  | atatcttcac  | cttcttctctg | 960  |
| cagctTTTTg  | gcactaaccg  | agaatgagga  | gccctccctg  | ccccaccgtc  | ctccagagaa  | 1020 |
| tgcgccccctc | ctggttccct  | gtccctcccc  | tgcgctcctg  | cgagaccaga  | tataaaacta  | 1080 |
| gctgcccaacc | cagcctgtgg  | ccaggctcact | gtctacccca  | gcccagccca  | gccctctgcc  | 1140 |
| gcttgtacat  | acgccatggg  | gaccctgagg  | aactgaggcc  | acgtcaatcc  | ctgtgtgcc   | 1200 |
| ccattcgccc  | gttacatctt  | ccaaaactgg  | acgggtcaagg | ctgaaggctc  | ctctgggttt  | 1260 |
| gagggtccaa  | gggacaagga  | ggagaagcct  | agcaggattt  | cagatgcagg  | agagagaccc  | 1320 |
| aggaagcccg  | gcagagccct  | gagccccact  | gcaattcctc  | ctagggctgc  | acaatcatgt  | 1380 |
| ggccttaggg  | caactgttcc  | tgcattccagt | ctgtgtcctc  | ctgtctttct  | catccaggct  | 1440 |
| aggcattgac  | atttgaaga   | aanggggtaa  | gggacacagc  | tgggcaagtn  | gattgggttg  | 1500 |
| cangattgct  | gtc         |             |             |             |             | 1513 |

<210> 115  
 <211> 2312  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (2312)..(2312)  
 <223> n equals a,t,g, or c

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 115   |             |            |             |             |             |      |
| gcccttgtag  | gtgacactat  | agaaggtacg | cctgcaggta  | ccgggtccgga | attccccgggt | 60   |
| cgacccacgc  | gkscgggggc  | tgaggggctg | ccatggcggc  | ggcgggccgg  | ctcccagact  | 120  |
| cctgggcccct | cttctcgccg  | ctcctcgag  | ggcttgcaact | actgggagtc  | gggcccgttc  | 180  |
| cagcgcgggc  | gctgcacaac  | gtcacggccg | agctcttttg  | ggccgaggcc  | tggggcaccc  | 240  |
| ttgcggcttt  | cggggacctc  | aactccgaca | agcagacgga  | tctcttcgtg  | ctgcgggaaa  | 300  |
| gaaatgactt  | aatcgtcttt  | ttggcagacc | agaatgcacc  | ctattttaa   | cccaaagtaa  | 360  |
| aggatatctt  | caagaatcac  | agtgcattga | taacaagtgt  | agtccttggg  | gattatgatg  | 420  |
| gagattctca  | aattggatgtc | cttctgacat | atcttcccaa  | aaattatgcc  | aagagtgaat  | 480  |
| taggagctgt  | tatcttctgg  | ggacaaaatc | aaacattaga  | tcctaacaat  | atgaccatac  | 540  |
| tcaataggac  | ttttcaagat  | gagccactaa | ttatggattt  | caatggtgat  | ctaattcctg  | 600  |
| atatttttgg  | tatcacaagt  | gaatccaacc | agccacagat  | actattagga  | gggaatttat  | 660  |
| catggcatcc  | agcattgacc  | actacaagta | aaatgcgaat  | tccacattct  | catgcattta  | 720  |
| ttgatctgac  | tgaagatttt  | acagcagatt | tattcctgac  | gacattgaat  | gccaccacta  | 780  |
| gtaccttcca  | gtttgaaata  | tgggaaaatt | tggatggaaa  | cttctctgtc  | agtactatat  | 840  |
| tggaaaaaac  | tcaaaatatg  | atgggtggtg | gacagtcagc  | atgttcagac  | tttgatggag  | 900  |
| atggacacat  | ggatcattta  | ctgccaggct | gtgaagataa  | aaattgccaa  | aagagtacca  | 960  |
| tctacttagt  | gagatctggg  | atgaagcagt | gggttccagt  | cctacaagat  | ttcagcaata  | 1020 |
| agggcacact  | ctggggcttt  | gtgccatttg | tggatgaaca  | gcaaccaact  | gaaataccaa  | 1080 |
| ttccaattac  | ccttcatatt  | ggagactaca | atatggatgg  | ctatccagac  | gctctggtca  | 1140 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tactaaagaa  | cacatctgga  | agcaaccagc  | aggctttttt  | actggagaac  | gtcccttgta  | 1200 |
| ataatgcaag  | ctgtgaagag  | gcgcgtcgaa  | tgttttaaagt | ctactgggag  | ctgacagacc  | 1260 |
| taaatcaaat  | taaggatgcc  | atggttgcca  | ccttctttga  | catttacgaa  | gatggaatct  | 1320 |
| tggaacattgt | agtgcctaagt | aaaggatata  | caaagaatga  | ttttgccatt  | catacactaa  | 1380 |
| aaaataacttt | tgaagcagat  | gcttatatttg | ttaaagttat  | tggtcttagt  | ggctctgtgtt | 1440 |
| ctaatagactg | tcctcgtaag  | ataacaccct  | ttggagtgaa  | tcaacctgga  | ccttatatca  | 1500 |
| tgtataacaac | tgtagatgca  | aatgggtatc  | tgaaaaatgg  | atcagctggc  | caactcagcc  | 1560 |
| aatccgcaca  | tttagctctc  | caactaccat  | acaacgtgct  | tggttttaggt | cggagcgcaa  | 1620 |
| atthttcttga | ccatctctac  | gttggtattc  | cccgtccatc  | tgagagaaaa  | tctatacgaa  | 1680 |
| aacaagagtgt | gactgcaatc  | attccaaatt  | cccagctaat  | tgtcattcca  | taccctcaca  | 1740 |
| atgtccctcg  | aagttggagt  | gccaaactgt  | atcttacacc  | aagtaatatt  | gttctgctta  | 1800 |
| ctgctatagc  | tctcatcggt  | gtctgtgttt  | tcatcttggc  | aataattggc  | atthttacatt | 1860 |
| ggcaggaaaa  | gaaagcagat  | gatagagaaa  | aacgacaaga  | agcccaccgg  | tttcatthttg | 1920 |
| atgctatgtg  | acttgcccttt | aatattacat  | aatggaatgg  | ctgttcactt  | gattagttga  | 1980 |
| aacacaaaatt | ctggcttgaa  | aaatagggg   | agattaaata  | ttatthtataa | atgatgtatc  | 2040 |
| ccatggtaat  | tattggaaaag | tattcaaaata | aatatgggtt  | gaatatgtca  | caaggtcttt  | 2100 |
| thttthtaag  | cactttgtat  | ataaaaattt  | gggttctcta  | ttctgtagtgt | ctgtacattt  | 2160 |
| ttgttccttt  | gtggaatgtg  | ttgcatgtac  | tccagtgttt  | gtgtatthtat | aatthtattt  | 2220 |
| gcatcatgat  | gatggaaaaa  | gttgtgtaaa  | taaaaataat  | taaatgagca  | ggaaaaaaa   | 2280 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaacaaaaa  | an          |             |             | 2312 |

<210> 116

<211> 6107

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (5749)..(5749)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (5892)..(5892)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (5896)..(5896)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (5906)..(5906)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (5957)..(5957)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (5966)..(5966)

<223> n equals a,t,g, or c

<400> 116

|             |             |             |             |             |             |      |
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| gcagttagtt  | ccttgatgtc  | agtagtgggc  | taaaggcagc  | ttactgtgtg  | tttgctgag   | 60   |
| ctttcactca  | gccaaagtgt  | agagtcagga  | aaccacattga | ggcaatggcg  | tcaaattggtg | 120  |
| tttcacaaga  | atgagccatt  | cagtctttgc  | tcactatata  | tttaatat    | tattattgtt  | 180  |
| gttattgtta  | ttattaattg  | gctttctgta  | ttctatgcct  | tttatttata  | aagacactaa  | 240  |
| gaaaacccat  | gtttgtaatt  | ttaataacat  | ttttcccatc  | ttgtaatatc  | cagagctact  | 300  |
| ttataaattc  | tctgaaccaa  | aagtattttc  | ctcagtgtat  | ctcttctccc  | ccagccccta  | 360  |
| ttgggaaaaa  | ttaccagta   | tagttcaggt  | tatgaggagg  | atcagccaca  | caatccagtg  | 420  |
| cttcagtttg  | aaaatgtaaa  | attctaaccc  | taaagtaggg  | ttggttgaaa  | ttcagacaa   | 480  |
| agcaaaccce  | gcaggtataa  | aaagtagtat  | aaatacaaat  | ctgtaagtta  | tttttgaatt  | 540  |
| ttctgaactt  | ttttctaaga  | gattacatag  | gagactaaag  | aaatctatct  | gttcaagttc  | 600  |
| taattaggat  | gattgttaat  | actgcactgt  | ggatgaagtg  | gcgactggct  | tgtgtgctga  | 660  |
| cttctgtggt  | ttagcaagag  | gtttattgtt  | atcaaatgct  | aattggcaat  | gccaagtcac  | 720  |
| tgggaccaat  | ttctgtttt   | ataatatcta  | agttttagaac | agaatatata  | cctgaactgt  | 780  |
| agtggtttga  | tcgatggag   | acagaaaacc  | cgatttttat  | tctcataaat  | tttgtggtta  | 840  |
| tttatacaag  | ggctgtgcta  | tgctaccata  | ttcttgttca  | ataatatag   | gtttgttgtt  | 900  |
| ttttttacat  | tgtaaatgt   | tccttaccce  | taaaggtcaa  | tgtaagtac   | aacattctga  | 960  |
| aaatacaatt  | tggctacgaa  | gagtattcat  | cttctttgaa  | gctcagtggt  | tgatatttgt  | 1020 |
| gctaataatg  | caatttcctg  | attcctgtta  | caagttatag  | ctacatatgg  | gagagactca  | 1080 |
| gtgagccagc  | aaaggccata  | gaaacaacaa  | tttattaaat  | gtatttatgg  | cagaaggacc  | 1140 |
| taaataaaat  | gtgagccacc  | ttttcttctt  | tatatgttta  | catttaagtg  | ttcttgcctt  | 1200 |
| cagcaactca  | cattaatgct  | tggagcttat  | ctcttctctc  | ctctctctct  | ctctctctct  | 1260 |
| ctgtgtgtgt  | gtgtgtatgt  | gtgtgtgtgt  | gtgtgtgtgt  | ttccttattg  | tcattccatt  | 1320 |
| atatatccac  | accaacatgg  | gtgacgataa  | ttcaaagtca  | tattttgcct  | ctaagcttga  | 1380 |
| tcagtgttacc | tttatgatta  | aagtatcatg  | ttatttagcc  | aatgcaaate  | tgttttaaaa  | 1440 |
| caaataagttt | aaaaaaagaa  | caagttttta  | agggttttat  | tatagaagaa  | gtattaatga  | 1500 |
| aggactttcc  | ttcctccctc  | cctttccctc  | cctccctgcc  | tccttctctc  | ccttccatct  | 1560 |
| ccccctctct  | cctgcttctt  | ttgtttctct  | ttcccttatt  | cctccctccc  | tcctttctcc  | 1620 |
| cttcttctct  | ttcttccatt  | catccttctt  | tgctttttat  | ttttattttt  | tgtaatatca  | 1680 |
| catgtgctgt  | agtttggaat  | tttattctag  | tgcaattctt  | gctcatcaga  | acctcagcta  | 1740 |
| atctacctag  | gaaaaatagt  | atcaaaggaa  | atgagaaagt  | tgtatctgag  | tccttccaga  | 1800 |
| actaagataa  | ttctttttga  | ccattttaagc | ctttataaat  | gogttttgac  | cattttaagcc | 1860 |
| tttataaatg  | cttggttttag | gaaagtgaat  | ctgttagatg  | catcaacaaa  | taatgaccag  | 1920 |
| gacaaaacga  | tttaataaatt | aaagtctcaa  | atcaccatgg  | ttatacattt  | tcaccagaaa  | 1980 |
| tagtaatctt  | acaatttttc  | atttttctga  | tgaagatttc  | tgttccaata  | tctgttctct  | 2040 |
| aatagatttt  | ttaaattaat  | tagctttctt  | ctgcttttat  | accacagggt  | ttatccctaa  | 2100 |
| ccgagacagc  | tgtcttatat  | ctgcatgcct  | tagactgtgt  | ggagggactc  | catgaagaaa  | 2160 |
| gaccataggt  | tagaaaaata  | actcatagta  | tataccctag  | taagtgggtt  | agtagaatct  | 2220 |
| cataacatgt  | attaaaaaga  | ggttttcttc  | tctgcttggt  | tgtgtcacta  | gagcaaaatt  | 2280 |
| gtagagataa  | tgctcataat  | gcagtaaata  | tcagaataat  | ctacaatatc  | atttgtggat  | 2340 |
| ggtcccaggt  | cccagtgctc  | tagttacttt  | acttcttttt  | ttttttttga  | gatggagtct  | 2400 |
| tgtctgtgtc  | ctcaggctag  | agcagtgtgc  | gatctcagct  | cactgcagcc  | tcacacctcc  | 2460 |
| aggttcaagc  | gattctcctg  | cctcagcttc  | ccaagttagc  | aggattacag  | gcacctcca   | 2520 |
| ctaggcccgg  | ctaatttttt  | ttgtattttt  | ttagtagaga  | tggggttttg  | ccatgttggc  | 2580 |
| caggctgggt  | tcgaactcct  | aacctccagt  | gatccacctg  | cctcggcgct  | ccaaagtgtc  | 2640 |
| aggattacag  | gcatgagcca  | ccacatccgg  | cctaattact  | tctttaatcc  | ccatttattt  | 2700 |
| ttatgccatt  | ctagcctcat  | ttattaataa  | aattatgttt  | ttactttctc  | tttccgaaa   | 2760 |
| ttttttaaat  | taatatattta | tatctagatc  | taatgctatg  | gaaaagtgcc  | tttttatcat  | 2820 |
| ttataatttc  | atttttcaact | atttccaaaa  | acacataaac  | aaatagtttc  | agtaggtccc  | 2880 |
| agcttttact  | ttttccattt  | aaaccttctt  | ttctccattt  | cttccctttg  | gcttaagaat  | 2940 |
| aaaagaaaag  | gtacattgct  | agaattgttt  | ctttgggaga  | gggtaaaaaga | ttacagaatt  | 3000 |
| agactgttca  | gccttttatat | aaactaaatt  | tgtcttcctc  | tcaaccagct  | aatggttaggt | 3060 |
| cttatctgaa  | tactcatgag  | aatttttagca | tctgtgaaac  | tccatgcacc  | agatgtgtgt  | 3120 |
| aaatttcagg  | aagaaagtgt  | tgaaagcatt  | ttctctgatg  | ttaattagatg | gaaaataaat  | 3180 |
| cactaaaaca  | tagtttaggt  | aaagcctgat  | tatgccactt  | ttttttaact  | agacagggca  | 3240 |
| aagttgttta  | tgtttagtga  | cttcttgtct  | atcctcagtt  | aatttaccta  | gacaaaaagt  | 3300 |
| gtcaaaggaa  | atgagaaaaa  | ggttatatct  | gactccctcc  | agacctaaga  | taattccttt  | 3360 |
| tgatcagata  | cagtcagatg  | gagtgccctg  | gtttttgtta  | attttgctc   | tattccagct  | 3420 |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ccttaccaca  | gcggtggtgc  | ttaaagaaag  | gatcatcagc  | aacaggtcag  | gatagttcta  | 3480 |
| cctttgggat  | agggctgctt  | tccccgtgct  | agtattttctg | tgactgttag  | tggcactgag  | 3540 |
| gactgcaaac  | ttttatgcaa  | tattcttaat  | accctattga  | tatatgcac   | tttaatcatt  | 3600 |
| ccaaagaagc  | caagaatgct  | gtatagtgat  | gattccttcc  | taatgaattc  | atcttaacta  | 3660 |
| tttagaatgt  | tatgtccctt  | ttcttttgga  | tagccaactt  | ggtataaatg  | ttatatggat  | 3720 |
| ttttctaata  | tgactatata  | ggacttaaga  | ctttgaaatg  | taatttactt  | ataaggggaa  | 3780 |
| ataattatgc  | tttagcacat  | catttttagaa | acgtcacatt  | ttagaaacat  | tcagcttgct  | 3840 |
| aacctacatg  | tttggaatt   | cattaaaaacc | agttgtctat  | atattttgtg  | ccatgtatat  | 3900 |
| aagaacatta  | caatataatc  | ttttctacat  | atgtagtatg  | tgcaaccagt  | ggttctcaga  | 3960 |
| gtatggttct  | cagcccacca  | gctagtatca  | gtatcacctg  | ggaactagtt  | agaaatgtaa  | 4020 |
| attctttggc  | cccacccag   | acatactgag  | tcagaaattc  | tggaataggg  | ccccgcgaat  | 4080 |
| ctgttttcac  | aagccctcca  | ggtgattctg  | atgcacactt  | taaagtttag  | gaaccactgg  | 4140 |
| gctaagactc  | tggtgagata  | tagagttttt  | cttccactca  | gactgatata  | gttatacatt  | 4200 |
| gttcttcctg  | ttaattcagc  | ttaacctggg  | tatctataat  | cttttattgg  | caaaagttaa  | 4260 |
| ttctcagtac  | tgctataga   | gatacagtg   | attttatgta  | catacacaat  | tagtctaatt  | 4320 |
| cttgataatt  | cagttaattt  | agtttggcat  | tttcttacca  | cttactaaaa  | ggtttacatt  | 4380 |
| aatgactga   | tttaaataata | taggtgcaat  | gtctatgtt   | tatttttaatt | gttatgacat  | 4440 |
| tttagtagct  | aatataattg  | accggtgcta  | aagtctcctg  | tttatccata  | aaatgggtac  | 4500 |
| attatgggca  | gtgtaataca  | agctttcttt  | tcattgccta  | gtactttacc  | agcagaccac  | 4560 |
| agttttgccc  | tggttagacc  | aacctctcaga | acaaaatcat  | cattccttgt  | atttatattt  | 4620 |
| gtatctgaga  | tagtaaacaa  | gatggctggc  | caggccaaca  | tggtcacctta | acttattttt  | 4680 |
| ttaataggtg  | aaacttcttc  | aaaagtagct  | tgctttgtat  | aagaactaag  | ctatcagtat  | 4740 |
| agatatagct  | atccttggag  | cttatgtttc  | agacaagaat  | tatttactaa  | aataaataat  | 4800 |
| aaacaagata  | atgcattata  | caatttgggc  | atttctcgtt  | tctcaagtgt  | atgcatcatg  | 4860 |
| gtaaatataa  | actaaccaca  | agataggtag  | attgattcat  | ttcatttttaa | tctccttggtg | 4920 |
| taattcagta  | cctccataat  | tgttctaata  | ttcttcccac  | tgtttacaaa  | ttaccagtta  | 4980 |
| attaactcgt  | gaaagaaaaa  | ttcacatatc  | agaataaaaa  | taaatgtata  | ctcacttta   | 5040 |
| aaaaatcacc  | actgctgtct  | ttccttaata  | ctagcagtg   | aaatgtaagt  | ggcttactct  | 5100 |
| acaaattttg  | gtgctggcaa  | atacataggc  | aaactggttg  | gagctgctct  | agttacattc  | 5160 |
| ctcccttctt  | attccctttt  | tctcttcttc  | actttattgc  | ataacatatt  | cctgtaccca  | 5220 |
| aagcattcta  | ccacagttct  | atttgactcc  | cacttgtaat  | aactccttta  | aaaaattcca  | 5280 |
| tgtttaacca  | tatgaccctg  | cttgcttact  | catattctcc  | ctccctctcc  | ccttcctttc  | 5340 |
| tctctcttcc  | agaagtcatt  | tgcttggttt  | gaaatatttt  | gtagggattg  | cttattatat  | 5400 |
| tatttttagct | gatgaacctc  | aggacaacgt  | ctacacacac  | acacatacat  | acagcacac   | 5460 |
| aaaatctcag  | ctggtgaaga  | gtgggcttgg  | aatcagactt  | ctgtgtccag  | taaaaaactc  | 5520 |
| ctgcactgaa  | gtcatttgtga | cttgagtagt  | tacagactga  | ttccagtga   | cttgatctaa  | 5580 |
| tttcttttga  | tctaataaat  | gtgtctgctt  | accttggttt  | cttttaattg  | ataagctcca  | 5640 |
| agtagttgct  | aattttttga  | caacttttaa  | tgagtttcat  | tcacttcttt  | tacttaatgt  | 5700 |
| tttaagtata  | gtaccaataa  | tttcattaac  | ctgttctcaa  | gtggtttanc  | taccattctg  | 5760 |
| ccatttttaa  | tttttattta  | attttatattg | cttgagcaca  | ctgatcaacc  | actgaactgc  | 5820 |
| cttcttccat  | tgctctgcaa  | tgatataagg  | gttacatttt  | tgtgtatag   | gctttcatag  | 5880 |
| ttgggatttc  | anagcncctg  | taccanatat  | tttcagtttg  | ttctctgggg  | gaatttcatt  | 5940 |
| tgcatctatg  | tttttancta  | tctgtnataa  | cttgtttaaat | attaaaaaga  | tattttgctt  | 6000 |
| ctatttgaac  | atgtgtatata | tcgcaactat  | atttctgtaa  | acagctgcag  | tcaaaaaataa | 6060 |
| aacactgaaa  | gttttcacaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaa     |             | 6107 |

<210> 117  
 <211> 767  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 117  |            |            |             |            |            |     |
| catgaaaaca | cattctctta | tagtttttaa | attcatcacc  | caagagttcc | tgctctttga | 60  |
| tgatgagaca | tacctggtag | actccaaaac | agagagcaga  | cgctagat   | ctttgttctg | 120 |
| gggtgtgcat | taagagtaca | ttgacctgtc | tgctctccag  | cttgactctt | ttggaagaga | 180 |
| gatgctagta | ctgatgacaa | cctgcattct | ggctgcgggtg | tgygtccaca | ctgcacagtg | 240 |
| tgcaccagac | tctcgtagtg | acaatgactg | tccctcacat  | caggcgcaga | tccattttag | 300 |

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| agcctcagaa | gtcaggagag | ggtggacttt  | caaccacgac  | tgaaaacact  | gtctttctta | 360 |
| ggacatgctg | tgtgtatgac | acacttacag  | atgtctgtgc  | tcactgatgc  | ttgttgatgt | 420 |
| gtcatcgcac | atcagtgaca | aacattttgtc | atgtttttgtc | ctttgggtgga | acttctttat | 480 |
| tatactcact | ttcctcccaa | accattttttc | tcaacttcat  | cagaagcaa   | atgtcatgtg | 540 |
| gtcattctgt | gatggggctc | agggctaggt  | taggtgatga  | tttctgaaag  | ctcagagacg | 600 |
| tgaaggaaaa | aggacatcag | tgcttggtac  | ttagctctta  | taagcctcac  | gtgcaacaat | 660 |
| aaacccgagt | tcaagaatca | gattcttaga  | tagattgggt  | tggtagcaaa  | tgacaaaaaa | 720 |
| ccaacgtaaa | tatgcttcgg | caaaaaaaaaa | aaaaaaaaaag | ggcgggc     |            | 767 |

<210> 118  
 <211> 1932  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| <400> 118  |             |             |            |            |             |      |
| cccgcagcag | ctcccaggat  | gaactgggtg  | cagtggctgc | tgctgctgcg | ggggcgctga  | 60   |
| gaggacacga | gctctatgcc  | tttcgggtcg  | ctcatcccg  | tgccctcct  | gtgcgcgctg  | 120  |
| ctgcctcagc | accatgggtg  | gccagggtccc | gacgggtccg | cgccagatcc | cgcccactac  | 180  |
| agggagcgag | tcaaggccat  | gttctaccac  | gcctacgaca | gctacctgga | gaatgccttt  | 240  |
| cccttcgatg | agctgcgacc  | tctcacctgt  | gacgggcacg | acacctgggg | cagtttttct  | 300  |
| ctgactctaa | ttgatgcact  | ggacaccttg  | ctgattttgg | ggaatgtctc | agaattccaa  | 360  |
| agagtgggtt | aagtgtctca  | ggacagcggt  | gactttgata | ttgatgtgaa | cgctctgtg   | 420  |
| tttgaaacaa | acattcgagt  | ggtaggagga  | ctcctgtctg | ctcatctgct | ctccaagaag  | 480  |
| gctgggggtg | aagtagaggc  | tggatggccc  | tgcttcgggc | ctctcctgag | aatggctgag  | 540  |
| gaggcgggcc | gaaaactcct  | cccagccttt  | cagaccccca | ctggcatgcc | atatggaaaca | 600  |
| gtgaacttac | ttcatggcgt  | gaacccagga  | gagacccctg | tcacctgtac | ggcagggatt  | 660  |
| gggaccttca | ttgttgaaat  | tgccaccctg  | agcagcctca | ctggtgaccc | ggtgttcgaa  | 720  |
| gatgtggcca | gagtggcttt  | gatgcgcctc  | tgggagagcc | ggtcagatat | cgggctggct  | 780  |
| ggcaaccaca | ttgatgtgct  | cactggcaag  | tgggtggccc | aggacgcagg | catcggggct  | 840  |
| ggcgtggact | cctactttga  | gtacttggtg  | aaaggagcca | tcctgcttca | ggataagaag  | 900  |
| ctcatggcca | tgcttcctaga | gtataacaaa  | gccatycgga | actacaccgg | cttcgatgac  | 960  |
| tggtacctgt | gggtwcagat  | gtacaagggg  | actgtgtcca | tgccagtctt | ccagtccytr  | 1020 |
| gaggcctact | ggcctgggtct | kcagagcctc  | rttggrgaca | ttgacaatgc | catgaggacc  | 1080 |
| ttcctcaact | actacactrt  | atggaagcag  | tttggggggc | tccrgaatt  | ctacaacatt  | 1140 |
| cctcaggat  | acacagtgga  | gaagcgagag  | ggctaccwc  | ttcgccaga  | actyattgar  | 1200 |
| agcgcaatgt | acctctaccg  | tgccacgggg  | gaycccacc  | tcytagaact | cggaagagat  | 1260 |
| gctgtggaat | ccattgaaaa  | aatcagcaag  | gtggagtgyg | gatttgcaac | aatcaaagat  | 1320 |
| ctgcgagacc | acaagctgga  | caacgcgatg  | gagtckttct | tcctggccga | gacygtgaaa  | 1380 |
| tacctctacc | tyctgttyga  | ccrrccaac   | ttcatccaca | acaayggstc | caccttcgac  | 1440 |
| gcggtgatca | ccccctatgg  | ggagtgcac   | ctgggggctg | gggggtacat | cttcaacaca  | 1500 |
| gaagctcacc | ccatcgaccc  | tgccgccctg  | cactgctgcc | agaggctgaa | ggaagcag    | 1560 |
| tgggaggtgg | aggacttgat  | gagggaattc  | tactctctca | aacggagcag | gtcgaaattt  | 1620 |
| cagaaaaaca | ctgttagttc  | ggggccatgg  | gaacctccag | caaggccagg | aacactcttc  | 1680 |
| tcaccagaaa | accatgacca  | ggcaagggag  | aggaagcctg | ccaaacagaa | ggtcccactt  | 1740 |
| ctcagctgcc | ccagtgcagc  | cttcacctcc  | aagttggcat | tactgggaca | ggttttccta  | 1800 |
| gactcctcat | aaccactgga  | taattttttt  | atttttattt | ttttgaggct | aaactataat  | 1860 |
| aaattgcttt | tggctatcaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 1920 |
| aagggcggcc | gc          |             |            |            |             | 1932 |

<210> 119  
 <211> 3436  
 <212> DNA  
 <213> Homo sapiens

|            |           |            |            |            |             |     |
|------------|-----------|------------|------------|------------|-------------|-----|
| <400> 119  |           |            |            |            |             |     |
| aattcccggg | tcgaccacg | cgtccgctcg | ctgcggcgcc | gactgagcca | ggctggggccg | 60  |
| cgtccctgag | tccagagtc | ggcgcgcgcc | ggcaggggca | gccttcacc  | acggggagcc  | 120 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| cagctgtcag  | ccgcctcaca  | ggaagatgct  | gcgtcggcgg | ggcagccctg  | gcatgggtgt  | 180  |
| gcatgtgggt  | gcagccctgg  | gagcactgtg  | gttctgcctc | acaggagccc  | tggaggtcca  | 240  |
| ggctccctgaa | gaccagtggt  | tggcactggt  | gggaccgat  | gccaccctgt  | gctgtctctt  | 300  |
| ctcccctgag  | cctggcttca  | gcctggcaca  | gctcaacctc | atctggcagct | gacagatac   | 360  |
| caaacagctg  | gtgcacagct  | ttgctgaggg  | ccaggaccag | ggcagcgct   | atgccaacgg  | 420  |
| cacggccctc  | ttcctggacc  | tgctggcaca  | gggcaacgca | tccctgaggg  | tgacagagcg  | 480  |
| gcgtgtggcg  | gacgaagggc  | agcttcacct  | gcttcgtgag | catccgggat  | ttcgggcagcg | 540  |
| ctgccgtcag  | cctgcaggtg  | gccgtccctc  | actcgaagcc | cagcatgacc  | ctggagccca  | 600  |
| acaaggacct  | gcggcccg    | ggacatggtg  | accatcacgt | gctccagcta  | ccagggtac   | 660  |
| cctgaggctg  | aggtgttctg  | gcaggatggg  | caggggtgtg | ccctgactgg  | caacgtgacc  | 720  |
| acgtcgcaga  | tggccaacga  | gcagggtctg  | tttcatgtgc | acagatcct   | gcgggtgtgtg | 780  |
| ctgggtgcaa  | atggcaccta  | cagctgcctg  | gtgcgcaacc | ccgtgctgca  | gcaggatgcg  | 840  |
| cacagctctg  | tcaccatcac  | accccagaga  | agccccacag | gagccgtgga  | ggtccagggtc | 900  |
| cctgaggacc  | cgggtggtggc | cctagtgggc  | accgatgcca | ccctgcaactg | ctccttctcc  | 960  |
| cccgagctcg  | gcttcagcct  | gacacagctc  | aacctcatct | ggcagctgac  | agacacaaa   | 1020 |
| cagctgggtgc | acagtttcac  | cgaaggccgg  | gaccagggca | gcgcctatgc  | caaccgcacg  | 1080 |
| gccctcttcc  | cggacctgct  | ggcacaaggc  | aatgcatccc | tgaggtgca   | gcgcgtgcgt  | 1140 |
| gtggcggacg  | agggcagctt  | cacctgcttc  | gtgagcatc  | gggatttcgg  | cagcgctgcc  | 1200 |
| gtcagccctgc | aggtggccgc  | tccctactcg  | aagcccagca | tgaccctgga  | gcccacaag   | 1260 |
| gacctgcggc  | caggggacac  | ggtgaccatc  | acgtgctcca | gctaccgggg  | ctaccctgag  | 1320 |
| gctgaggtgt  | tctggcagga  | tgggcagggt  | gtgcccctga | ctggcaacgt  | gaccacgtcg  | 1380 |
| cagatggcca  | acgagcaggg  | cttgtttgat  | gtgcacagcg | tccctgcggg  | ggtgctgggt  | 1440 |
| gcgaatggca  | cctacagctg  | cctgggtgcg  | aacccgtgc  | tgacgagga   | tgcgacggc   | 1500 |
| tctgtcacca  | tcacagggca  | gcctatgaca  | tttccccag  | aggccctgtg  | ggtgaccgtg  | 1560 |
| gggctctctg  | tctgtctcat  | tgcaactgctg | gtgcccctgc | ctttcgtgtg  | ctggagaaa   | 1620 |
| atcaaacaga  | gctgtgagga  | ggagaatgca  | ggagccgagg | accaggatgg  | ggaggagaa   | 1680 |
| ggctccaaga  | cagccctgca  | gcctctgaaa  | cactctgaca | gcaaagaaga  | tgatggacaa  | 1740 |
| gaaatagcct  | gacctagagg  | accagggagc  | tgctaccctt | ccctacagct  | cctaccctct  | 1800 |
| ggctgcaatg  | gggtgcact   | gtgagccctg  | cccccaacag | atgcatectg  | ctctgacagg  | 1860 |
| tgggtcctct  | ctccaaagga  | tgcgatacac  | agaccactgt | gcagccttat  | ttctccaatg  | 1920 |
| gacatgattc  | ccaagtcatc  | ctgctgcctt  | ttttctttat | agacacaatg  | aacagaccac  | 1980 |
| ccacaacctt  | agttctctaa  | gtcatcctgc  | ctgctgcctt | atttcacagt  | acatacat    | 2040 |
| cttagggaca  | cagtacactg  | accacatcac  | cacctcttct | ttccagtgtg  | gcgtggacca  | 2100 |
| tctggctgcc  | ttttttctcc  | aaaagatgca  | atattcagac | tgactgaccc  | cctgccttat  | 2160 |
| ttcaccaaag  | acacgatgca  | tagtcacccc  | ggccttgitt | ctccaatggc  | cgtgataaa   | 2220 |
| tagtgatcat  | gttcagccct  | gcttccacct  | gcataaatc  | ttttcttctc  | agacagggac  | 2280 |
| agtgcggcct  | caacatctcc  | tggagtctag  | aagctgtttc | ctttcccttc  | cttccctctc  | 2340 |
| ttgctctagc  | cttaatactg  | gccttttccc  | tccctgcccc | aagtgaagac  | agggcactct  | 2400 |
| gcgcccacca  | catgcacagc  | tgatgcattg  | gacctgcagg | tgacagtgct  | ggaacacgtg  | 2460 |
| tggttccccc  | ctggcccagc  | ctcctctgca  | gtgcccctct | cccctgcccc  | tcctccccac  | 2520 |
| ggaagcatgt  | gctggtcaca  | ctggttctcc  | aggggtctgt | gatggggccc  | ctgggggtca  | 2580 |
| gcttctgtcc  | ctctgccttc  | tcacctcttt  | gttcccttct | tttcatgtat  | ccatcagtt   | 2640 |
| gatgtttatt  | gagcaactac  | agatgtcagc  | actgtgttag | gtgctggggg  | ccctgcgtgg  | 2700 |
| gaagataaag  | ttcctccctc  | aaggactccc  | catccagctg | ggagacagac  | aactaactac  | 2760 |
| actgcacccct | gcggttttga  | gggggtcctc  | gcctggctcc | ctgctccaca  | cctcctctgt  | 2820 |
| ggctcaaggc  | ttcctggata  | cctcaccccc  | atccccacca | taattcttac  | ccagagcatg  | 2880 |
| gggttggggc  | ggaaacctgg  | agagagggac  | atagcccctc | gccacggcta  | gagaatctgg  | 2940 |
| tgggtgtcaa  | aatgtctgtc  | caggtgtggg  | caggtgggca | ggcaccagg   | ccctctggac  | 3000 |
| ctttcatagc  | agcagaaaag  | gcagagcctg  | gggcagggca | gggccaggga  | tgctttgggg  | 3060 |
| acaccgaggg  | gactgcccc   | cacccccacc  | atggtgctat | tctggggctg  | gggcagttct  | 3120 |
| ttcctggctt  | gcctctggcc  | agctcccggc  | ctctggtaga | gtgagacttc  | agacgttctg  | 3180 |
| atgccttccg  | gatgtcatct  | ctccctgccc  | caggaatgga | agatgtgagg  | acttctaatt  | 3240 |
| taaagtgtgg  | actcggaggg  | atthttgtaaa | ctgggggtat | atthttgggga | aaataaatgt  | 3300 |
| ctttgtaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 3360 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 3420 |
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<210> 120  
 <211> 1256  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1079)..(1079)  
 <223> n equals a,t,g, or c

<400> 120  
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 tgtgtctctcg gtccagccgg acgtccatga ccttgggtgg caggaatctt cccccgccta 120  
 tccttcaagg acaagtcacac gtatatcgag tcctcgacca aagtgtatga tgatatggca 180  
 ttccgggtacc tgtcctggat cctcttcccg ctccctgggt gctatgccgt ctacagtctt 240  
 ctgtacctgg agcacaaggg ctgggtactcc tgggtgcca gcatgctcta cggcttcctg 300  
 ctgaccttgc gcttcacacac catgacgccc cagctcttca tcaactacaa gctcaagtct 360  
 gtggcccacc ttccctggcg catgctcacc tacaaggccc tcaacacatt catcgacgac 420  
 ctgttcgcct ttgtcatcaa gatgcccggt atgtaccgga tcggctgcct gcgggacgat 480  
 gtgggtttct tcactctacct ctaccaacgg tggatctacc gcgtcgaccc cacccgagtc 540  
 aacgagtttg gcatgagtgg agaagacccc acagctgccg ccccggtggc cgagggtccc 600  
 acagcagcag gggccctcac gccacacct gcaccacca cgaccaccgc caccagggag 660  
 gaggcctcca cgccctgcc caccaagccc accagggggg ccagctctgc cagcgagccc 720  
 caggaagccc ctccaaagcc agcagaggac aagaaaaagg attagtcgag actggtcctc 780  
 acctgctccg gctcctggcg accactaccc ctgcgtcccg gcccctcgc ctcccctccc 840  
 tgtcgccctt tccctggaca gatcaggccg gggcggtggg aggccgcct cagggtcaggg 900  
 cccagcgtgt gacgtagggg ccggggcagg ccagggtttg tttgtggagg cgctgtctgt 960  
 cctctgttcc ctctgtgttt ccagccatct cgccctgcca gccagcacc actgggaatc 1020  
 atgggtgaagc tgatgcagcg ttgccgaggg ggtgggttgg gcgggggtgg ggccgggcnc 1080  
 ccttacggga tgcccacggc cgttcacat cttgtccctc gtccccctac cacactcccc 1140  
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<210> 121  
 <211> 1057  
 <212> DNA  
 <213> Homo sapiens

<400> 121  
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 taaaagaaat aaaaggagga cacgtctctg tgcactggtg tggacaaatc tccaagtcac 180  
 tgcaaaatgg aaaaagtata agatgtctt tccctgaacc tcaagggtcc cgcccctctc 240  
 actttcagggt ctctggacct ctgactgaca ctgtgcctgc ccagggtccct gtatgactg 300  
 ccacagtgcc ctgggcccga tgtccacccc tgtcctgccc ttctctggga tagggctggc 360  
 ctccctctgc ctctgcctgg ctgcatccat ggtcgatctc aagtgccttg gcatgactc 420  
 cactctcctg cagccttcaa tcaaggaatg atggggatgt gtacataccc caccacaccc 480  
 cttggcaggg tgatgctgag gtgtggattt ttaacagttc ccagactttc ccaggaggct 540  
 tgggttttggg tgcccacagt gggagctggg gtgatatcat acctcgccg gccgcctttc 600  
 ctccctgttc tctgtgcccc tactcccaact ctgagctgc cccgtttctc tgttttctg 660  
 aaagagctga cctgtgtctg cctcccactc tcccaatgcc cctgccactc ctgtgagcct 720  
 gctgctgggt aggtcggtgc tgacctctgt gttgctggat aatgagtcac ctatctctgg 780  
 aggagaagaa aggcaggctc tccacagccc tgataaaatc tccaagtctccagtttcgg 840  
 gtccctctcc tgggatgcag acccactgcc tgcccagctg gtacgatcca catgccctct 900  
 tcttgggaat aggggcattg gaaagtgcac aaagatactc ttctggctgc tgtgttccact 960  
 gtgagtaata aactgtccat ttctccgaaa aaaaaaaaaa aaaaaaaaaa 1020  
 aaaaaaaaaa aaaaaaaaaa aaaaaagggc cggccgc 1057

<210> 122  
 <211> 2683  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2640)..(2640)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2676)..(2676)  
 <223> n equals a,t,g, or c

<400> 122

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| gcatttgcaa  | taacagaaaa  | ggaattgcat  | gtatgaagtt | ttcaatcgtg | ggcttttctt  | 120  |
| tgttggtggg  | agggggtcgg  | gggatagttt  | gatttccatt | ttctgaaaac | gacagacttg  | 180  |
| gattctgttt  | gtgtgtgcat  | attttatcca  | gccttaagtt | ataaagctca | tctgtcccgc  | 240  |
| tgcattccct  | gtgtattttc  | aggacatggc  | tcgtgggtgt | gtgtgttcat | tgtgtgcgtc  | 300  |
| tgtatgtatt  | tttctgtcat  | cactgttccc  | tctcctcccg | agtgtgcatt | cagttaatat  | 360  |
| aatcagttgc  | ttgcttcttt  | caaagtgcct  | tgaagtcttt | gaactcatgt | gtgagcatct  | 420  |
| ttatcaacta  | tcccaattgc  | atgttctcca  | tcacatatcc | tcttatttgc | tctgtacccc  | 480  |
| ctgagaatat  | gttttagaga  | tattggaata  | aagctgtctg | ggtaaggagt | aggcttagcc  | 540  |
| gacctatgaa  | taatacactt  | tagtctagtt  | ctttattcta | aatctggatt | gccagtattg  | 600  |
| tgtattttaa  | ccaagtctgt  | gaatacctgc  | tttttttggc | cacagagtaa | caagttttca  | 660  |
| tgtgaagatc  | tcataccaaa  | gtaggaagta  | aaaatagctt | agaaagctct | gtcaggtggt  | 720  |
| ttgtgcagct  | gacagargta  | atgttacatc  | acctaaaaaa | gaaagataca | cggtcagtta  | 780  |
| tcctaaaaat  | aaattgtttg  | gaaagtacaa  | tgcaccacat | ttttgtagaa | gtctactatt  | 840  |
| tgataaacag  | ttgaaattca  | agatgtgttt  | gacccttagt | catttttact | ctttggttct  | 900  |
| gagtatacct  | attttcttag  | cgtatctgcc  | ttgtttatct | ttttcttcac | cttttaacaa  | 960  |
| gtatgacata  | ggaaagtcac  | ttttttttag  | aattcatgga | tcagtctgat | ctactcttat  | 1020 |
| tcataatgga  | acatgtaaat  | atactgaaaa  | ctgtttttca | ggagagaaat | atgagttgga  | 1080 |
| gggaaggaaa  | agtggttcta  | ctaattgttc  | aaaatcctca | tcagagaagg | tatgatgttc  | 1140 |
| tcaggtgtgg  | aaaatatttt  | ttagttgatt  | gagaatgcag | gtttaacaga | agagataagg  | 1200 |
| ggcataatga  | ctgctgggtt  | tccagactgg  | attttcctac | cgcaactatt | aatgttctca  | 1260 |
| gagttgatga  | ggaccacctt  | tgtgtataca  | cttgtagttt | taaaccttgc | attggtaaca  | 1320 |
| aaatgatcaa  | ctttaatcca  | ggtagaattc  | aagatggctg | tacttcagtt | gtatgataaa  | 1380 |
| attaatggtt  | ctcatgactt  | gtgtggcatc  | taaaaataat | gtttttatag | catctctg    | 1440 |
| ccactaaatt  | gttgacttga  | attttgggaa  | aaaaaaaagt | tgggtgtgat | atgtatatgt  | 1500 |
| gtgtgtgtat  | atatgtattt  | ataaacaagt  | gtgtttgagt | aacaagtgag | tttcatagtc  | 1560 |
| ttcccctacg  | catgtgtatt  | ccacacacaa  | atggctgagt | tatagtcata | aaacaatttg  | 1620 |
| caataaaaaa  | aaaaccaaaa  | cagattgtca  | gttaaccagg | aaacagttaa | tgttttttta  | 1680 |
| tgaatctggc  | attatagtga  | gcaaagtgcg  | tattaattta | ggctaatttc | taatactacc  | 1740 |
| ataattttgt  | tctaaatttc  | tgttggggta  | gaaattacta | aaattgtggg | gagttttttc  | 1800 |
| tgattttttac | attgcttttag | gaaacatttt  | tactaattca | gctgtcttag | gtataaatgaa | 1860 |
| tagttttctt  | cctgtttttt  | tatgtgtcat  | tgttagtggt | ctcagaattc | tgatcagtaa  | 1920 |
| ctttgtgtat  | gatgtgaat   | tacaaaccgt  | ttgaatgata | cagttgaaaa | cgtatccctc  | 1980 |
| tactttcttc  | agttgtagaa  | aaggtttaatt | tccctcagtg | tcccacatta | taccaaccta  | 2040 |
| agagaagaac  | aggtaatagg  | gagaaataaa  | catacgggtg | tttcagtggt | tttggtcagt  | 2100 |
| tgtccacagg  | agaaactaac  | cattcagttg  | tcttaatttt | agttcgttct | accctgtgag  | 2160 |
| gagttttgtt  | ccatcagttg  | ttgactttcc  | aaaatgttgc | attaagtaat | agttgtcact  | 2220 |
| ctgttgggtc  | catggtcaat  | atcaatcaga  | ctttcatgat | ctcactaat  | tattagtaga  | 2280 |
| gtcctgtact  | atgtctgtaa  | ctactaagtt  | taaagaaaag | cacatagtca | cttcactctc  | 2340 |
| ttttttctta  | gcctacgctc  | actccccaac  | ccatcccaac | attgacatgc | tatctgtgga  | 2400 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| caaatagcag | ttctcagaat | ctagtcaagt | tgccatcatc | ccccttgcc  | tgcccggtca | 2460 |
| tagtaggtat | gcataatgtt | gtttctgtac | agtactgtgt | gtgtgtgtgt | atatatatat | 2520 |
| acatctgtat | gcacacatct | ttgataaaat | agctatttga | ctagcagggg | taaagtggct | 2580 |
| tttaattact | tcgtgagtg  | tattggatac | atcttaaaaa | aaaaaaatct | ggacccagan | 2640 |
| ccatgccata | cttggttggg | ctattttggg | gcattnaaa  | ttg        |            | 2683 |

<210> 123

<211> 3881

<212> DNA

<213> Homo sapiens

<400> 123

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| ccacgcgtcc  | ggcacaacgt  | gcaggtttgt  | taacatatgt  | ataaatgtgc  | catgttgggtg | 60   |
| tgctgcaccc  | attaactcgt  | catttagcat  | taggtatata  | tcctaatagt  | atccctcccc  | 120  |
| cctccaccca  | cccaactcct  | gggctcaagg  | gacccctcca  | ctcagcctcc  | tgagtagctg  | 180  |
| ggactacggt  | gtgtgtgact  | ctgtgggctc  | tattttctgt  | ttttgttcgt  | ttgtttgttt  | 240  |
| atagcagcca  | tactaatggg  | tgtgagatgg  | tatctcattg  | tggtgggttg  | catttcctta  | 300  |
| ataaattagt  | atgttcagta  | ttttttcaca  | tgcttatgg   | tcatttgtat  | atcttccttg  | 360  |
| gagaaatatt  | tattcaactc  | ctttgcccc   | tttaaaatca  | ggttatttgg  | gtttttgttg  | 420  |
| ttgatgttga  | gtttaggag   | ttctttgtat  | attctagata  | ttcacccttc  | atatatatga  | 480  |
| tttgcaaata  | aattctcctg  | ttctataggt  | tgccctttca  | ctctgttaat  | tgtgtccttt  | 540  |
| gagtcataga  | aatttttcat  | ggtaatgtgg  | tctatcttat  | gtatttttac  | attggttgac  | 600  |
| tgtgtctttag | atgttatatc  | caagatatata | ttgcaatcta  | atgtcatgaa  | gctttactct  | 660  |
| cctatgtttt  | cttctaagag  | ttttagagtg  | tttagagagt  | ttaagagtgt  | taggtcttat  | 720  |
| attcaggctc  | ttcattttatt | ttgagttaat  | tttgtgtat   | ggaacaagg   | aagggcccaa  | 780  |
| ctttattatt  | ttgcatgtgt  | acttctaggt  | tttccagcat  | catttattga  | agagcctgtt  | 840  |
| ctttccccc   | tgaatggcct  | tgccatcctc  | atcaaaaatc  | attttactat  | atatttgagg  | 900  |
| ggttattttc  | ggactctgta  | ccatgggtctg | tatgtctgtt  | tatgccagtt  | ccacactttt  | 960  |
| tgattactgt  | agtcttgacg  | tatgttttga  | aatcaggaag  | tatgagacct  | ccaacttgag  | 1020 |
| tgtcttttga  | agagaagatg  | ttcttaaatg  | tggtgcagtc  | ttactgtcag  | tttttaaaat  | 1080 |
| ggattatagt  | tttgatgttg  | tatctaagaa  | gtctttgcct  | cacacaggat  | cacaaagatt  | 1140 |
| ttctgctatg  | ttttctttta  | taaatgttgt  | agtatgaagg  | tttatactta  | tgtctgtgat  | 1200 |
| ccatttggaa  | ttaattttta  | catgtggcat  | agtgtatgaa  | ttggagttca  | attgtttgca  | 1260 |
| tatggttctg  | gcattatttg  | ttgaaaagac  | tatcctttct  | tcactgtcat  | tgcatcttgc  | 1320 |
| tgaaataaac  | tgacactgta  | tgtgtgggtc  | tatttttgtc  | tgtctcttct  | atactgtat   | 1380 |
| ctgtttgtgc  | ttataaccagt | acttagatta  | ctatagctta  | taaagagttt  | tgaacgtctg  | 1440 |
| gtcagtaaa   | tttcaacttt  | gtactttttt  | ttcagagttg  | ttggcagttc  | tggtgattta  | 1500 |
| gattttccatt | taacttttag  | aatcagcttg  | tttaattttta | atgacaacat  | aaaaggcgac  | 1560 |
| tgggattttta | actgggggtta | attgaatcc   | tcaggggcaat | ttgtgggaaa  | ttgtattttta | 1620 |
| atgatactga  | ttcttcgaat  | ccatgaagat  | tgatatctct  | ccattttattt | aggcattttc  | 1680 |
| agtttcttcc  | agcaatgctt  | tgtgggtttt  | cagcctacat  | gtcttggata  | gctttatcag  | 1740 |
| atttattcct  | aagtatttct  | tatttttttg  | atgctattgt  | aaatgatact  | ttaactttta  | 1800 |
| tttctggaat  | aattgtagat  | catatgtaga  | ttatagttgc  | aaaaataata  | cagagaattc  | 1860 |
| ccttatattc  | cttacctatt  | ttgccctaac  | atcaacatct  | tatattacta  | tggcacattt  | 1920 |
| ggatttttatt | tggattttat  | ccctcttcca  | cttaatatct  | ttttgttgtt  | gttgttctag  | 1980 |
| agtatcactt  | ttaggcataa  | tgtcttctct  | gttacctttg  | atctatttgt  | ttctcagtc   | 2040 |
| tcattttttta | caaccttgac  | agtttttagt  | aatatctttt  | aagaattttg  | tagaatgtcc  | 2100 |
| ttcatttttg  | gcttgccttg  | tatttttttt  | ctcatgtttt  | ggtcactctt  | tgtgagatct  | 2160 |
| ctcagtaagt  | atttcttatt  | ttggggtgct  | gttataaatg  | gcattgatg   | ttaaattttta | 2220 |
| attttttagtt | tttttgttgc  | tagtttatag  | aaataagatt  | gatttttttat | attgacccta  | 2280 |
| tataactaaaa | cttatttagct | ccaataagtt  | ttataaatac  | agtccataga  | ttttctactt  | 2340 |
| agacaatttag | gttttttttg  | caaattaaaa  | gcttttaatt  | ttgtggctct  | tatttcctta  | 2400 |
| cagtattctt  | tccaaccaag  | tgtacctact  | tgttgtctta  | ggattagtgt  | ttgttaggca  | 2460 |
| gaagatctgt  | aagaagcttc  | ctagcaagga  | cagaagggtg  | cctcagaatc  | aagatatcat  | 2520 |
| catgccacag  | tatgtcttgt  | ttgtatcaat  | cacctgtctg  | gtattatgtt  | agcctactct  | 2580 |
| gtcctgccct  | tgagtacttt  | agtctgtctg  | ccttgcttcc  | actcactgc   | ttcactgaga  | 2640 |
| ccttttatcc  | aaagtcacag  | tattatttct  | tggaaaagtt  | cctgtaaaaa  | gtttctagtc  | 2700 |

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| aaattgcctg  | ggaaaaaac   | ctactactta  | ttgagtgcct  | acttgatttt | agacatgttc | 2760 |
| tttcggatat  | tttagttatc  | tttaccacga  | cgcattacac  | ctctagttaa | gtagtattat | 2820 |
| tcatTTaaca  | acaaaaaaat  | ttatgcctac  | cttatgtaat  | gctatgtgga | aggttctata | 2880 |
| gctccagcaa  | tgaaccaaac  | acacccagaa  | aggcaagaga  | gtacaatacc | aatcgcaa   | 2940 |
| tgtgatatac  | attctgacgg  | gaagggtattg | aatgctacaa  | aatgatgagt | ctgacttagt | 3000 |
| ctgcagggat  | agggaagacg  | ttttcgagga  | aatgaTaaa   | aaaagtgaag | gaagagtagg | 3060 |
| aattttcaag  | tgaagtagtg  | gaagaagagt  | gttttagatg  | gaagtagcag | tagatgtgaa | 3120 |
| gtttctgagg  | taggagagag  | cactgacctt  | tcagagagtt  | ggactgtgtt | accattttac | 3180 |
| tgatgaagag  | gctgaaagat  | acagagaggg  | taagttattt  | cccaagggtg | catagtaa   | 3240 |
| ggagggagcc  | agactggaac  | ccaggacgat  | acagctttta  | tcagttaact | atgctatttg | 3300 |
| aaagtcaaaa  | taaagtaatt  | taaattgaat  | tcccataga   | aatggagaat | tcgccattt  | 3360 |
| ctgaataaaa  | acaacttaaa  | atgtcctatt  | acagggttata | aaatagtctg | tttaaatagt | 3420 |
| ctataatggg  | tcattatata  | aataaaaaatg | caattgcaat  | tttttggtaa | gtttgaaatt | 3480 |
| ttacaaaattt | ttagaaattt  | ggtatttttaa | aagtcctgac  | ctgtagtttg | tcattgatta | 3540 |
| aggaaaaagc  | taggagcgcc  | ttacttcctt  | ggagtttttg  | aaaaagtatg | tgtaagaagc | 3600 |
| tagaaatctg  | cagtatacag  | agtattgtga  | tattgtta    | tgtaatttgc | ttattttcac | 3660 |
| tgtaataaat  | gaccttcaac  | acaattattg  | aattttttaa  | aactttcttt | gaataggctt | 3720 |
| ttgccagcat  | tttgagggaat | gcttgagggt  | gagctacttg  | atggcttcta | gaaactgacc | 3780 |
| cacagttctc  | tgtgtggttg  | tcctgagttt  | ttcattttca  | ttcatttaag | aatttcgttt | 3840 |
| aatatgttca  | tactgttctg  | tccattaaaa  | aaaaaaaaaa  | a          |            | 3881 |

<210> 124

<211> 728

<212> DNA

<213> Homo sapiens

<400> 124

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| aaatgattta | gtgacctata | caagtagcct  | gcagtagcgg  | atccgaattc | ccggtcgacc | 60  |
| cacgcgtccg | gtgaaaacag | cagagtgc    | ctccatacca  | ctgggatctt | gtccagtaaa | 120 |
| catccagaga | gtgaggttag | gaaataaaaa  | gtatataaat  | attagatgcc | tagaaatgca | 180 |
| agtcacttta | aagattttat | gtgaaataga  | aaaaaaagag  | aggagaggga | ctcattgtct | 240 |
| tgtaatgggt | ccttcccaga | gagaggtgac  | tgteccagtgg | caccgggccc | ttttctcct  | 300 |
| tcccctttta | ctcttatcaa | ctagacaga   | aactaagaat  | tttggttca  | agtggctaaa | 360 |
| agattcatgg | gggaaaaaag | aaaatagaaa  | aaaataacag  | agagactgac | gctctaggca | 420 |
| gttacaagtc | caagaaaaaa | gacagaaaact | tttaagtatt  | gagccaaaac | caggtctagc | 480 |
| aamcataatg | ctggccctag | attattttatt | aattttatgaa | gaaacttcta | gatattggg  | 540 |
| tgacaaaagg | aaattaaatc | cattatatat  | gcataatatt  | taatgtaaat | atataataga | 600 |
| taaattatgt | atacataata | tataacccaa  | ttgaaacagt  | tttacaattt | ggtttgactg | 660 |
| gaaattcaaa | atccatatat | taatttttgt  | agtaaaagtt  | tatgtaaaaa | aaaaaaaaaa | 720 |
| gggcggcc   |            |             |             |            |            | 728 |

<210> 125

<211> 986

<212> DNA

<213> Homo sapiens

<400> 125

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| gcactggcct  | cttcaactgg | ggccgagaac | cagggctttg | tggcagcact | gatgggtgcag | 60  |
| gaggcaccgg  | ccctggtacg | gctgagcctg | gggtcccatc | gggtcaagg  | cccactcca   | 120 |
| gtgttgaaagc | tccagccgga | gggctggagc | ccatctactc | tctggagctg | cgcttccgtg  | 180 |
| tggaaggaca  | gctgtatgca | cccttgagg  | ctgtccatgt | gccctgcctg | tgtcctggcc  | 240 |
| gccctgcccc  | ccctctgtc  | ctgcctctgc | agccccgatg | cccggcccc  | gcacggctgg  | 300 |
| atgtccatgc  | ccctttacac | acatccactg | gtctcacgtg | ccatgccac  | ttgccacccc  | 360 |
| tgttcgtgaa  | ctttgccgac | ctctttctgc | ctttcccgca | gcctccagag | ggggccgggc  | 420 |
| tgggcttctt  | tgaggagctc | tgggattcct | gcctgccaga | gggtgctgag | agtcgtgtgt  | 480 |
| ggtgtccact  | tgggccacag | ggcctggagg | gcttgggtgc | ccgccacctg | agccttttg   | 540 |
| tggtggtggc  | ccagcctcct | accagctact | gtgtagcaat | ccacctgcc  | ccggactcaa  | 600 |

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| agctgctgct | gcggtctggag | gcgccctgg  | cagatggagt | gcctgtggcc | tgcggaccga | 660 |
| tgactgggcc | gtgctgcccc  | tggcggggga | ctacctcgt  | gggctggcgg | ctgctgtctg | 720 |
| agccccggga | gaccaggtgg  | gggcaggact | gtggcccttg | tgggggcca  | ggcacactcc | 780 |
| tgtagctctg | tcgcaaaac   | cctgcattcc | gcagtgcct  | cgctggett  | ttttcttttg | 840 |
| ggccccggtt | gggagcaggc  | tcctgggggt | gagggctctg | ctgagtctgt | ttttgctgct | 900 |
| ctagcaagat | ccctgagacg  | gggtaagtta | taataaacag | aaatgattg  | gctcagaaaa | 960 |
| aaaaaaaaaa | aaaaaagggc  | ggccgc     |            |            |            | 986 |

<210> 126  
 <211> 4893  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| <400> 126   |            |            |             |             |             |      |
| ccacgcgtcc  | gtgagaagat | aatcctgaga | ggctgcatcc  | tgagaaatac  | cagctgggtg  | 60   |
| tttggaatgg  | ttatTTTTgc | aggtcctgac | actaaactaa  | tgcagaatag  | tggttaagaca | 120  |
| aagtttaaaa  | ggacaagcat | tgatagattg | atgaatactc  | tagtactatg  | gattttttggg | 180  |
| tttctgatat  | gcttggaat  | tattcttgca | ataggaaatt  | caatctggga  | gagtcaaact  | 240  |
| ggggaccaat  | tcagaacttt | cctcttttgg | aatgaaggag  | agagagctc   | tgtgttctcc  | 300  |
| ggattcttaa  | cattctggtc | atatattatt | attctcaata  | cagttgtacc  | catttcctta  | 360  |
| tatgtgagt   | tggaagtaat | tcgtctagga | cacagttatt  | ttataaactg  | ggaccggaag  | 420  |
| atgtattatt  | ctcgaaaagc | aatacctgca | gtggctcgaa  | cgaccacgct  | caatgaggaa  | 480  |
| ctggggcaga  | ttgagtacat | tttctccgac | aaaacgggta  | ccctcactca  | aaacatcatg  | 540  |
| accttttaaaa | gatgttccat | taatgggaga | atctatgggt  | aagtacatga  | tgacctggat  | 600  |
| cagaagacag  | aaataactca | ggaaaaagag | cctgtggatt  | tctcagtcaa  | atctcaagcg  | 660  |
| gatagagaat  | ttcagttcct | tgaccacaat | ctgatgga    | ccattaaaaat | gggtgatccc  | 720  |
| aaagttcatg  | aattccttag | gttacttgct | ctctgccaca  | ctgtaatgtc  | agaagagaat  | 780  |
| agcgaggag   | agctgattta | ccaagttcag | tcacctgatg  | aaggggctct  | agtgactgcc  | 840  |
| gctagaaaatt | ttgggttcac | ttttaaatcc | cggacccag   | agaccataac  | aatagaagaa  | 900  |
| ttgggaacac  | tagttactta | tcaattactt | gccttttttg  | atttcaacaa  | caccagaaaa  | 960  |
| aggatgtctg  | tcatagttcg | aaaccagaa  | ggacagataa  | agctttattc  | caaaggagca  | 1020 |
| gatactattc  | tgtttgagaa | acttcactct | tccaatgaag  | tccttttgtc  | tttgacgtca  | 1080 |
| gaccacctca  | gtgaatttgc | aggggaaggc | ctgggacct   | tggccatcgc  | atacagagac  | 1140 |
| ctggatgaca  | agtacttta  | agagtggcat | aagatgcttg  | aagatgcgaa  | tgttgccaca  | 1200 |
| gaagagaggg  | atgaacgaat | agctgggcta | tatgaagaaa  | ttgaaagaga  | tttgatgcta  | 1260 |
| ctaggtgcc   | ctgctgtaga | agataagtta | caggaggggt  | ttattgaaac  | agttacaagt  | 1320 |
| ttactactag  | ccaattatta | gatctgggtc | ctaacaggag  | acaaacaaga  | aactgccatc  | 1380 |
| aacatcggtt  | atgcctgcaa | catgctgact | gacgacatga  | atgatgtgtt  | tgtgatagca  | 1440 |
| gggaataatg  | ctgtggaagt | gagagaagaa | ctcaggaaag  | caaaacaaaa  | tttgtttgga  | 1500 |
| caaaacagaa  | atttttccaa | tggccatga  | gtttgtgaaa  | aaaagcagca  | gctggagttg  | 1560 |
| gattctattg  | tagaagaaac | cataacagga | gattatgcct  | taatcataaa  | tggccacagt  | 1620 |
| ttggctcatg  | ccctagaaag | tgatgtcaag | aatgatctcc  | tagaacttgc  | ttgcatgtgt  | 1680 |
| aagactgtaa  | tttgctgcag | ggtcactcca | ctccagaaag  | cccaagtgg   | agagctgg    | 1740 |
| aagaagtaca  | gaaatgctgt | tactttggcc | attgggtgatg | gagccaatga  | tgtcagcatg  | 1800 |
| attaaaagtg  | ctcacatttg | tgttggcatc | agcgccag    | aaggattgca  | agcagtctta  | 1860 |
| gccagcgact  | attcatttgc | acagtttaga | tatctccaaa  | ggcttctcct  | tgttcatgga  | 1920 |
| aggtggctct  | atttccgaat | gtgcaaattc | ttatgctatt  | tcttctataa  | gaattttgca  | 1980 |
| tttactcttg  | tgcatttctg | gtttggtttc | ttctgtgggt  | tctcagccca  | gactgtttat  | 2040 |
| gaccagtgg   | tcatcaccct | ttttaacatt | gtttacacat  | cactgcctgt  | tttagccatg  | 2100 |
| gggatttttg  | accaggatgt | gagtgaccag | aacagcgtgg  | actgtcccca  | gcttaca     | 2160 |
| ccaggacagc  | tgaatctgct | ttttaacaag | cgtaaatttt  | tcatttgcgt  | gatgcattgga | 2220 |
| atctacacct  | cattagtcct | tttcttcate | ccctatgggg  | cctttttaca  | cgtggctgga  | 2280 |
| gaagatgggc  | aacatattgc | tgactaccag | tcctttgcag  | ttacatggc   | cacatctttg  | 2340 |
| gtcattgtgg  | tcagtgtgca | gatagccttg | gataccagtt  | actggacttt  | cattaatcac  | 2400 |
| gtcttcatct  | gggggagcat | tgccatttat | ttctccattt  | tatttacaat  | gcacagtaat  | 2460 |
| ggcatctttg  | gcatcttccc | aaaccagttt | ccatttgttg  | gtaatgcacg  | acattccctg  | 2520 |
| accagaaggt  | gcatctggct | tgtaatcttc | ttaacaacag  | tggcttcgt   | tatgccagt   | 2580 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| gtggcattca  | gatttttgaa  | ggtggattta  | tacccaaccc | tgagtgatca  | gatccgcg    | 2640 |
| tggcagaagg  | ctcaaaagaa  | ggcaaggcct  | ccaagtagcc | gaaggcctcg  | gacccgcagg  | 2700 |
| tcaagctcaa  | gaaggtctgg  | atatgctttt  | gctcaccaag | aaggctatgg  | agagcttatt  | 2760 |
| acatctggaa  | aaaatatgcg  | agctaaaaat  | ccacccccaa | catcagggtc  | ggaaaagaca  | 2820 |
| cattataata  | gcactagctg  | gattgaaaaat | ttatgtaaga | aaaccacaga  | caccgtgagc  | 2880 |
| agcttttagcc | aggataaaaac | agtgaaaactg | tgagtcaata | tgaattttaa  | ccacgtagtt  | 2940 |
| atcttttcac  | ttcaggtgga  | gctgaaaattc | tgctggctcc | aggtttgag   | atttgaggca  | 3000 |
| agaggtgggg  | caggcagatt  | gcctcactta  | acttaaatct | gcggcagaca  | actgccagt   | 3060 |
| cccatcaaac  | aggagtgtgc  | gctatggaaa  | accaggccag | agggtcactg  | tctggtttgt  | 3120 |
| gatttggtgg  | acaaaacact  | cgctgttaca  | agtacagatt | tttttttttt  | ttaaatcaac  | 3180 |
| ctagatacca  | attgacctga  | actttagaat  | cttatttatg | gagaaaaact  | tgtaaagctg  | 3240 |
| catattcact  | gaatggatcc  | tcaggcggat  | aaaagggtgc | attttaaagg  | tatatatcca  | 3300 |
| agctgaaaag  | catgcctatt  | gacagataaa  | catgtatctg | taagatcagc  | ctttcccaag  | 3360 |
| gtatactttt  | aaaattttaa  | gcgtgtactg  | tgttgccttc | agactgagtt  | gcatgtcact  | 3420 |
| cttttagtctt | ttcagctacc  | tgctgtttca  | gccaggacaa | caaattggctt | ccaagcctga  | 3480 |
| agaatacaaa  | agtgtgcttg  | tgtttctcat  | ttttatacca | gtctagggac  | aaaggagact  | 3540 |
| gaacatcttt  | gcagcaggat  | aggctggtaa  | tttgatcaaa | tttattcaaa  | aagctctcag  | 3600 |
| tctgtgtcat  | gtaaggacat  | gcttatgaaa  | tgtgagagag | gctcgccact  | aagtattcta  | 3660 |
| aatacttttc  | aatggctttt  | ctaacaacct  | cagtagtaat | ttgctgagca  | tcatccagac  | 3720 |
| cattaataga  | atcagcaaa   | cactggaatt  | tcacacttta | atgataatat  | tccacatagt  | 3780 |
| ctatgggcaa  | atattttcaa  | cattttccaa  | tttaaagct  | tcagaattga  | agccaaacaa  | 3840 |
| attaataaat  | aattgtttta  | attactattt  | aaaaactcag | gttttagattg | tttaaaatta  | 3900 |
| gttgcttttg  | atactcagct  | gtcatgttta  | taattcaaac | atgtagttaa  | catatgtagg  | 3960 |
| taagggtgtt  | tttttgaga   | tgttgcagct  | caaatttcag | tccacatatg  | aatcatcagt  | 4020 |
| gtattttcca  | taaagtgtt   | cgggcatatt  | tgtgtgaaaa | cctcagttct  | gtcacttctt  | 4080 |
| acctctataa  | acttgacga   | taatgtgcct  | tctctgagac | tcagtttctt  | cctctgtaaa  | 4140 |
| atgaggacat  | actacctacc  | tcacgtggtt  | ggttgatgat | tgtctgtcaa  | agcacaaact  | 4200 |
| ctgaaattat  | taaaaacata  | attatttcat  | aaacagatga | gttaagttcc  | agttaaactca | 4260 |
| acatcagtat  | aacagagcaa  | ttggaagaga  | atatgaaaaa | actggaatct  | aaatagtcag  | 4320 |
| tgaggaaggc  | tttgataaaa  | tgaaattgcc  | agaaagatat | aaaactgggt  | agggtcctac  | 4380 |
| agggaaataa  | aattataacc  | gtggaggtag  | atttctctac | cagaaagcaa  | aaataagca   | 4440 |
| tcatgtctta  | atggttttct  | acaaatcaac  | ttctaattct | acagagtoct  | taatctggtc  | 4500 |
| cctattaaat  | tcttggtcag  | acaaaagttac | atttcccaag | agagtcagggt | gacacttgag  | 4560 |
| tgagtttgat  | ggataatgag  | ctaattgtgat | atctataggt | cacaattttt  | taaaacccaa  | 4620 |
| attttcaagt  | ctgggataat  | ctttcctaaa  | tgggatcaaa | tgaaataata  | tgtgtaaaag  | 4680 |
| agtcaaatgc  | agtcctttac  | catagtaact  | gcctatggac | gttgtctttc  | ccttacatgc  | 4740 |
| ctgcctacac  | ttaccagat   | gttggttttc  | aatgtctaat | ttgtcattag  | tttcaccaca  | 4800 |
| tttgctcact  | ttttgtaaca  | tttttgcaag  | atttgaaaac | tttcagttaa  | gttttgga    | 4860 |
| ctattggtaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaa        |             |             | 4893 |

<210> 127

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 127

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| gcccacgcgt  | ccgagaaaaa | tgctgctcag  | tttttattgt  | ctaccaatgg  | taagtataca | 60  |
| tattttcttt  | ccatgtgccc | actgtgtgta  | cctgttgcac  | atatcctgta  | gcctaggaga | 120 |
| ggaatcattt  | aacagagata | cttgtaaaaa  | ggacttttgt  | ttttctatac  | agaatgtaaa | 180 |
| ctctactttt  | ttactgtcac | ttgcagtttt  | tagattctct  | gaaagattct  | ctgatagcaa | 240 |
| ttttttgttt  | actacacctc | caattttgtg  | tgaaaagaat  | gggctgctata | ccattggat  | 300 |
| ttagggtcagg | tactatttct | gtcatttctc  | agtctcgtaa  | tcttgggcag  | gttactaaca | 360 |
| ctgaattgaa  | ttttcctcag | cagcaaaacta | gagatagcaa  | ttttttatta  | tagtattatt | 420 |
| atgaattatta | aataacttca | catacatcat  | gagtgcgaagt | gctcaataaa  | tgtaatttta | 480 |
| ttcctccttt  | ttaagtgttt | gtaaactaca  | cagagtattct | caaactgcag  | atacaaaata | 540 |
| ctcaaaggat  | ggtctccatt | ccaggatac   | ctataggaga  | gcactttctt  | acttgatcac | 600 |
| cattagcata  | ttgccttctt | cccagcaatc  | cacatggctg  | gaaggagatt  | cctctcctac | 660 |

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| tgtttacttg | ccaagggaac | atTTTTtgtt | gttttttgag  | acaagtctg   | tgcgccaggc | 720  |
| tgaagtgcac | tgggtgaatc | acagctcact | gcagcctcga  | cctccctacc  | tcagtctcct | 780  |
| gagtagctgg | gaccacaggt | gagtgccacc | acaccoggct  | aatttttttaa | aaacattttt | 840  |
| gtagagcctg | ggtaacatgg | ggtggaacaa | gcctgtagtc  | ccagatactc  | aggaggctga | 900  |
| ggtgaaagga | ttgcttgggc | cagggaggct | aaggctgcag  | tgagccgtga  | aaggccactg | 960  |
| cactccagcc | tgggtgacag | aatgagacct | tgtctcaaaa  | aaaaaaaaaaa | agtttcttgg | 1020 |
| aacctatacg | tttttttttg | tttttttttt | gaaaagccag  | acctgtgccc  | cttgttttga | 1080 |
| acaccgactg | ggaagatggg | gcttaggtaa | cagccaaacct | tggtgttcag  | ctgtgtggga | 1140 |
| gccaccaccc | tctctgggaa | gagttcctgc | ttctgtatgg  | caagcataaa  | tcaagctcag | 1200 |
| tctgggttat | ggagaagttg | aaaattgttt | tgttcctcat  | tagttttata  | ttgtatgaaa | 1260 |
| tacgatttta | atgaaaactt | ttcagaattc | acgttttgtt  | agatatttca  | gagaaccatt | 1320 |
| tttactttac | atcctaaaaa | tgccattttc | tatggttttg  | tcaataaaaac | actatgatgt | 1380 |
| tgaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa |             |             |            | 1410 |

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<220>
<221> misc_feature
<222> (979)..(979)
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc_feature  
<222> (1135)..(1135)  
<223> n equals a,t,g, or c
```

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| gtgtgacctt  | gggtaagtca | cttcacctct | ctgagcctcg  | gtttctacat | ctgcataacg | 1380 |
| acagcatatt  | taccattgat | gtgacctact | tcccacgcag  | ggatgtgggc | aggatggaag | 1440 |
| gaaatactgg  | gcatgatagg | cctggataac | cggtaaagaa  | ccatgcaaag | gcgaagacaa | 1500 |
| ggagtgcaga  | gagagctcat | ggttcctcca | ggctgggtgg  | cgatcaggct | catctcatct | 1560 |
| gcaccaactg  | ctctacttgt | tagatggaga | ccttgcataca | tgaatttctc | gaaatgctcc | 1620 |
| tggaaacttat | ttatatgcct | caaaatcctc | taaactcatt  | tatagtaacc | catagtttta | 1680 |
| attttataaaa | taaacgtatt | tattaaatct | taaaaa      | aaaaaa     |            | 1727 |

<210> 129  
 <211> 1353  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| <400> 129  |             |            |            |            |             |      |
| ccacgcgtcc | gcgctgctgc  | cgccgcgcgc | tcgggtcgtg | gagccaggag | cgacgtcacc  | 60   |
| gccatggcag | gcatcaaagc  | tttgattagt | ttgtcctttg | gaggagcaat | cgactgatg   | 120  |
| tttttgatgc | ttggatgtgc  | ccttccaata | tacaacaaat | actggcccct | ctttgttcta  | 180  |
| tttttttaca | tcctttcacc  | tattccatac | tgcatagcaa | gaagattagt | ggatgataca  | 240  |
| gatgctatga | gtaacgcttg  | taaggaactt | gccatctttc | ttacaacggg | cattgtcgtg  | 300  |
| tcagcttttg | gactccctat  | tgtatttgcc | agagacatc  | tgatggggcg | cctacccttc  | 360  |
| ttcagcaaga | tgggaacagc  | tgagtctgaa | ggaagagaaa | cactgacaca | gcagctgcct  | 420  |
| ctcccagcag | ccgccatgag  | aagattgtta | cctgcaagca | gagtgtccac | tcaaccctgt  | 480  |
| ctgaggctgg | cagacagtgc  | tgagtcactt | ctgggcaggc | ctgctctgtg | ggctctagga  | 540  |
| ttcctgcttt | gccctccctc  | tcaggcacia | tgacaactac | tgctcagtgc | cagacactgc  | 600  |
| accatgtagg | caacacgtgg  | cagtgatgat | tagtcacaaa | atcacattta | tattcattct  | 660  |
| aatgaaactg | ccattgcaaa  | attataactg | agacagtga  | agaagtctga | cctaaccaac  | 720  |
| tccatcttgc | ttctaacctc  | caagctgtcc | ttgttcattc | ctgggactca | ttttggagg   | 780  |
| aacttagtta | atagcttaca  | gtttaaaaca | aagacaatca | cagacctttc | ccaaaacaaa  | 840  |
| cccccttctt | gcctggaaac  | tagactgcct | ttgtaggatt | aacaaattag | ccgaaagatt  | 900  |
| agaaattatg | gtttaggagt  | cacgcagctg | gagatgacaa | gattctgaca | ctcctccaat  | 960  |
| tgctcctggg | gataacatta  | ctattctaag | gcctaacatc | agtgcctgag | atgttttgta  | 1020 |
| gaccctgccc | ttgatggatc  | agctggta   | acccagaccg | ataaactggc | tcgtcttatc  | 1080 |
| ttgtggcccc | caccagagg   | ctgactcaat | gcaagaagac | tggtctgact | ccctatgatt  | 1140 |
| tcctctccaa | cccaaccaag  | cggactgtc  | aactcactgg | cctcccccta | cccaccaa    | 1200 |
| tatccttaaa | aactcagatc  | cccaaatgct | cagggaaact | gattatgatt | accccaaaagc | 1260 |
| ttggagtaat | aataaaaactg | gcctgtctcc | cgcacagcca | aaaaaaaaaa | aaaaaaaaaa  | 1320 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaa        |            |             | 1353 |

<210> 130  
 <211> 2504  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| <400> 130  |             |             |            |             |            |     |
| tcgacccacg | cgctccgcgag | tgccctgcagg | actgggcctc | cttcctccgc  | ctggccatcc | 60  |
| ccagcatgct | catgctgtgc  | atggagtggg  | gggcctatga | ggctcgggagc | ttcctcagt  | 120 |
| gcacccctcg | catggtggag  | ctgggcgtc   | agtcacatcg | gtatgaactg  | gccatcattg | 180 |
| tgtacatggg | ccctgcaggc  | ttcagtgtgg  | ctgccagtgt | ccgggtagga  | aacgctctgg | 240 |
| gtgctggaga | catggagcag  | gcacggaagt  | cctctaccgt | ttccctgctg  | attacagtgc | 300 |
| tctttgctgt | agccttcagt  | gtcctgctgt  | taagctgtaa | ggatcacgtg  | gggacattt  | 360 |
| ttactaccga | ccgagacatc  | attaatctgg  | tggtcagggt | ggttccaatt  | tatgctgttt | 420 |
| cccacctctt | tgaagctctt  | gcttgacaga  | gtgggtgggt | tctgaggggg  | agtggaaatc | 480 |
| agaaagtggg | agccattgtg  | aataccattg  | ggtamtatgt | ggttgccctc  | cccctcggga | 540 |
| tcgcgctgat | gtttgcaacc  | acacttggag  | tgatgggtct | gtggtcaggg  | atcatcatct | 600 |
| ctacagtctt | tcaagctgtg  | tgttttctag  | gctttattat | tcagctaaat  | tggaaaaaag | 660 |
| cctgtcmgca | ggctcaggta  | cacgccaatt  | tgaaagttaa | caacgtgcct  | cggagtggga | 720 |
| attctgctct | ccctcaggat  | ccgcttcacc  | cagggtgccc | tgaaaacct   | gaaggaattt | 780 |



|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| taacgaacga | tgttggaag   | acaggcgagc  | ctcagtcaga  | tcagcagatg  | cgccaagaag  | 840  |
| aacctttgcc | ggaacatcca  | caggacggcg  | ctaaattgtc  | caggaaacag  | ctggtgctgc  | 900  |
| ggcgagggct | tctgctcctg  | gggtcttct   | taatcttgct  | ggtggggatt  | ttagtgagat  | 960  |
| tctatgtcag | aattcagtga  | cgtggttaga  | aagaaagtca  | ggtcaagtga  | tgcttttgag  | 1020 |
| cttacacaca | attcacaggc  | ccaccagtga  | caatttactg  | tgagttaatg  | tcattcaggt  | 1080 |
| gtgcccattg | attttgaggg  | ctggaaatgc  | aaagacacat  | tttctataa   | aaagaaaaag  | 1140 |
| caactaaggt | taaaagctat  | attgtggccc  | aagacactgt  | ctgaagatg   | acatgagtag  | 1200 |
| taattcacca | ctatctgaac  | caagcaagga  | tcaatgtgct  | gactgcattg  | gccaatggct  | 1260 |
| ttgatacttc | tgctattttt  | ttagacacaa  | accataaac   | taactgctta  | agaattcata  | 1320 |
| ctgcttgaat | tatgtaaaat  | atattttaca  | gtatatcttt  | ccttgggcct  | tagattacta  | 1380 |
| ttcactgggc | aaatggtatt  | tgtttttgtt  | ttaatttttt  | ttttaataga  | cggaagtctt  | 1440 |
| gctctgtcat | gcaggctgga  | gtgcggtggt  | gcgatcatag  | ctcactgcag  | cctcgaactc  | 1500 |
| ttgggcttcc | agcaatcctc  | ctgtgtcagc  | caccagagta  | gctgagacta  | caggggtatg  | 1560 |
| ccaccatgcc | cagctggcat  | ttgttaatct  | tcatttgagg  | tctagatcta  | ggcactgtgg  | 1620 |
| acactgaaaa | acagttggga  | aatcttttga  | gctgtggaaa  | tcctaaacaaa | gactgataat  | 1680 |
| tcctggtarg | ggtgtgtgcs  | tgacgtactg  | carcctyaam  | ctyctgggct  | yaagtgatcc  | 1740 |
| tcccacctca | gcctcctgag  | tagctgagac  | cacaggcggtg | tgccaccacg  | cctagctaata | 1800 |
| ttttwawacc | rgggtcwamc  | ctttgtttcc  | caggstggty  | ttgaattcct  | gggatcaagc  | 1860 |
| aatycttcca | cctkgsmtct  | ccaaagtgtt  | gggattatag  | gcatgagcca  | ccasgactgg  | 1920 |
| ccagaggaca | aaatttttaat | aaaggtctta  | gcttaagcag  | taatcytact  | tcattaagcc  | 1980 |
| ttcctggggg | gcggtacaca  | ccgttaattc  | agaaaccctc  | agtacatact  | aagtatgctc  | 2040 |
| agtgtgtgga | aagtggatta  | caccaaatta  | agtcattctt  | atcacacca   | atcaaaagtc  | 2100 |
| aagaagccag | ggataaaaagc | acctcaggca  | cataacatta  | atctagtaat  | gtaattctct  | 2160 |
| gcacatccag | ctggtgaaac  | tgcgtgctgt  | aagctgggac  | cagctttgtc  | cataactgct  | 220  |
| gagagaactt | gctgaagctc  | taggaataat  | tttgccctgcc | cggtttgcct  | ccagttgtag  | 2280 |
| cttgccagct | cccaacaccc  | ttcctgggtgc | caataaaact  | tctcaaagag  | caatactgac  | 2340 |
| atttcttttg | ataaaaacctc | cagccttctc  | tgtgttggtc  | cgacataccg  | aggaccaact  | 2400 |
| ggtctacatg | gatgccctga  | acatgcatt   | ctttcttcca  | aaataaaaaca | ttaaataagag | 2460 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaagggc  | ggcc        |             | 2504 |

<210> 131  
 <211> 1905  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1828)..(1828)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1837)..(1837)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1846)..(1846)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1860)..(1860)  
 <223> n equals a,t,g, or c

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<400> 131
ngccacagca gagacagtgg agggcagtgg agaggaccgc gctgtcctgc tgtcaccaag      60
agctggagac accatctccc accgagagtc atggccccc atggccctgca cctcctcgtc      120
ctcgtcccca tcctcctcag cctgggtggcc tcccaggactggaaggctga acgcagccaa      180
gacccttctg agaaatgcat gcaggatcct gactatgagc agctgctcaa ggtggtgacc      240
tgggggctca atcggaccct gaagccccag aggggtgattg tgggtggcgc tgggtgggcc      300
gggctggtgg ccgccaaggt gctcagcgat gctggacaca aggtcaccat cctggaggca      360
gataacagga tcggggggccg catcttcacc taccgggacc agaacacggg ctggattggg      420
gagctgggag ccatgcgcat gccagctct cacaggatcc tccacaagct ctgccagggc      480
ctggggctca acctgaccaa gttcaccag taccgacaaga acacgtggac ggagggtgcac      540
gaagtgaagc tgcgaacta tgtggtggag aagtgcccg agaagctggg ctacgccttg      600
cgtccccagg aaaagggcc ctcgcccga gacatctacc agatggctct caaccaggcc      660
ctcaaagacc tcaaggcact gggctgcaga aaggcgatga agaagtttga aaggcacacg      720
ctcttggaa atcttctcgg ggaggggaac ctgagccggc cggccgtgca gcttctggga      780
gacgtgatgt ccgaggatgg cttcttctat ctacgcttcg ccgaggccct ccggggccac      840
agctgcctca gcgacagact ccagtaacag cgcacgtgtg gtggctggga cctgctgccg      900
cgcgcgctgc tgagctcgct gtccgggctt gtgctgttga acgcgcccgt ggtggcgatg      960
accagggac cgcacgatgt gcacgtgcag atcgagacct ctcccccggc gcggaatctg     1020
aagggtgctga aggccgacgt ggtgctgctg acggcgagcg gaccggcggt gaagcgcac      1080
accttctcgc cgccgctgcc ccgccacatg caggaggcgc tgcggaggct gcactacgtg      1140
ccggccacca aggtgttctt aagcttccgc aggccttctt ggcgcgagga gcacattgaa     1200
ggcgccact caaacaccga tcgccgctcg cgcattgatt tctaccgcc gccgcgcgag      1260
ggcgcgctgc tgcgtggcctc gtacacgtgg tcggacgcgg cggcagcgtt cgccggcttg      1320
agccgggaag aggcgttgcg cttggcgctc gacgacgtgg cggcattgca cgggcctgtc      1380
gtgcgccagc tctgggacgg caaggcgctc gtcaagcgtt gggcgaggga ccagcacagc      1440
caggtgtggt tctgtgtaca gccgcccggc ctcctggcaaa ccgaaaagga tgactggagc      1500
gtcccttatg gccgcatcta ctttgccggg gagcacaccg cctaccgcc cggctgggtg      1560
gagacggcgg tcaagtgcgg gctgcgcgcc gccatcaaga tcaacagccg gaaggcct      1620
gcatcgga caagccagccc cgaggggac gcatctgaca tggaggggca ggggcatgtg      1680
catgggggtg ccagcagccc ctgcgatgac ctggcaaagg aagaaggcag ccaccctcca      1740
gtccaaggcc agttatctct ccaaaacacg acccacacga ggacctcgca ttaaagtatt      1800
ttcgaaaaaa gccgtgtggt ccagcttnc cctgtgnttc aattantttt ccaattttgn      1860
ctgcattcgg aaccattagc cctgcaattt agcaggggca agccc      1905
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<210> 132  
 <211> 3091  
 <212> DNA  
 <213> Homo sapiens

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<400> 132
aaaccgaaaa gttttagtaga aaattgctgc acatggcctt tgcagaaaag aggccttca      60
aaacctctta cattccagta gaaaactctc tctgcaagtc cttaactttg ttactcatt      120
ccaggaaggt gcttcaatat tggatattca cacagagccc agtttttcaa gtttgctttc      180
acagtcacgc tatgctgaca tgggtgttcc acttctctgca aaaaacttaa tatttaaaga      240
tgggtgtctta tcagaakgga gtggacggtc accttctca cttcttattg ctaatctcca      300
tttgcaataa tttggttaca ccatttgttg ctcacacttt ctgccttttt tctttcttaa      360
cgttagcttt atagtgtcag ccactaaaaa gcacacctgt gctgcagtgc aattcttgct      420
taactaatat taaaagttgg ggaacatatt catgttttct gaagtttgc tcattattgc      480
acatcttatt cgcgacaagt gcttttttag agccagcact gtatttttta ccttgagaca      540
atctgcattt cttttataaa actaagtata tactttatag gctttatgat gactgttatg      600
tttataagca gtcactatga aaattgcaat ggtaatttta tatgttagtt tatcaaacat      660
aaatcttggt taattttata ttttgttacc tatacttttg gggatcaagg gaagagatgg      720
aactcttcct ctgaaaaggc ttcttggtac ttaaagtagt aaaactataa aacaataaac      780
atccagtatt gagagatgat atgatagggc attatgaatt cctatgggtg tctgtaaatt      840
```

|             |             |             |                        |             |             |      |
|-------------|-------------|-------------|------------------------|-------------|-------------|------|
| atgtatgtca  | gttggacatt  | gtagaaggta  | tgtaaatcag             | caagttgtg   | tataacttaa  | 900  |
| ccttgattta  | taaggtctta  | agattatgac  | tattcattga             | catctcatga  | gaagcttttag | 960  |
| aagactttct  | atttttaaac  | accattttata | tgtggacttc             | tgttgctact  | gactttgggc  | 1020 |
| tttatatttt  | catagagtct  | ttatggaaaa  | aatagaattt             | attttccact  | cttgtagcta  | 1080 |
| tagctgctgc  | acactttcac  | cctgatttat  | ttttttgttt             | cttagctttg  | atgttttcaa  | 1140 |
| accaaggatt  | gtgatttttag | gttagaatta  | catattagaa             | gcattaagac  | tatgtctttg  | 1200 |
| gatacagaatg | cttttagtgat | aaacctactt  | tgaagacata             | ctcttaagca  | atctggatct  | 1260 |
| taaatttatg  | tgaatacttt  | tttagaaaaa  | gataaa <del>g</del> aa | aatggaatta  | cttcaaagtg  | 1320 |
| tttcttgagt  | cattgattct  | tttagcatct  | caaagttaa              | ttagaataat  | tggaatcact  | 1380 |
| ttttagactt  | ttcaagttac  | cttccttggg  | aagtttgtgc             | agtgttatag  | tttagtttag  | 1440 |
| ctcctcttac  | agggtaatgg  | tttgctagtt  | taaaactgta             | accaaacgaa  | ctggtcagac  | 1500 |
| aacatatatc  | taaaacactt  | aaaatgttag  | gaagtttggg             | aatgttataa  | cctaaacggt  | 1560 |
| tttgctggta  | actttttgtt  | atttatagat  | atttgtgtat             | ttaacatata  | tacttcagga  | 1620 |
| aatatatgcc  | tttcctaaaa  | cttaacctat  | cattcaatc              | catggcctat  | ctatagaatt  | 1680 |
| gaatattttg  | gaccatgtta  | tctgtggcac  | gtcagtgct              | gtgtttgagg  | taaatgcagt  | 1740 |
| aacggttagt  | tttctacttt  | gtcttataga  | aggtagaaac             | catgtgtatg  | ttatgtttgt  | 1800 |
| ctataaaaaga | aaaaatacta  | atattaaata  | atttcttacg             | actctgagtc  | actcacttat  | 1860 |
| ttttccaata  | attgatattg  | tacattccta  | gtgccattag             | gtatgtatgt  | atgtaacttt  | 1920 |
| tacagttttt  | cagctgaaag  | ttgtaagtat  | tttttttttt             | tgatcggggc  | tctttaatct  | 1980 |
| cattttaatt  | tcctttgttt  | gaactgtagt  | tatttatccc             | tatattaacc  | atctaaacca  | 2040 |
| actgtaaatga | catgtacact  | aatacagaat  | tgaacatttg             | tagttgttgg  | cagtgaacct  | 2100 |
| agttgttggt  | gaattttaaag | cttaaatat   | gggaatgatt             | tgctgctata  | tttcctttga  | 2160 |
| gagagaaagg  | aggaagaaat  | agaacctaat  | agtgatcatg             | aatttttaggg | aaagtaccga  | 2220 |
| agaaccatgg  | ggtcccctct  | ggtttcttgt  | gttgaatgag             | gcaagggtaa  | tcatctgatt  | 2280 |
| ccgagctgaa  | gacctctggt  | cctcttaagg  | agggagagtg             | cattttttaga | gcttttga    | 2340 |
| aaatgtgaaa  | agctgatgtt  | tgcgcccttg  | tttggtgaatt            | tggcttttgtt | ttacttatac  | 2400 |
| attaactcat  | gtaatctctt  | aaatcttaca  | agcattgatc             | catttcaaca  | aaaagggtaaa | 2460 |
| tttaaaatgc  | agacttttgtt | atttgccaaa  | gaagattcat             | gaaaaattta  | cgtccaatta  | 2520 |
| ttttgcaaat  | agttaatttc  | atttggcttt  | ttaccatggt             | ccttcctttc  | tttttccgc   | 2580 |
| ttccttaatg  | taattttaaac | cctggcaaac  | attcttttaga            | aaccaagagg  | aaagaaagaa  | 2640 |
| caaatatcaa  | aaaagacata  | gaatttaata  | ttgatacaat             | ttcacctcta  | aaatggattt  | 2700 |
| gaagaaatgc  | aacttttatat | caaaaaatgt  | catctgattt             | cctttgtttc  | tttttaaat   | 2760 |
| tatgtaatca  | gatgatttta  | tgtttttttt  | tcaggggagc             | ggaatatattg | tttcttttac  | 2820 |
| ttgttgtttt  | cagttttctc  | tgccattcat  | gtttcttttt             | tgtgttcagt  | gtttcaaata  | 2880 |
| caatttgat   | ttaaggattt  | taaaatacca  | aactgttaact            | gagtacagtg  | gatcgttttc  | 2940 |
| tgtttaggatg | ttaatatatt  | acaatgaaat  | ctataaaagt             | ttgtcaattt  | gattattgac  | 3000 |
| acatatataca | tgtttacaaa  | taaactgtgg  | tattgatcaa             | gttactatga  | aaaaaaaaaa  | 3060 |
| aaacccgggg  | ggggccccgg  | aacccaatcc  | c                      |             |             | 3091 |

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<210> 133
<211> 1396
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (668)..(668)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (739)..(739)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (751)..(751)

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<223> n equals a,t,g, or c

<400> 133

|            |             |             |            |             |            |      |
|------------|-------------|-------------|------------|-------------|------------|------|
| gctggtaacc | aggtggaacc  | atttcacgtg  | tccctcccca | gctgcctcag  | tccccttccc | 60   |
| cacctgggcc | acagcatggg  | ggttccctca  | cccaccgcct | ggccctctct  | tgccctggtc | 120  |
| cacactcaga | aaaaagcaag  | gatcagacaa  | gaagaagagt | cccacccct   | ccgtccccc  | 180  |
| caggagctgg | cgttctctgc  | gctaagggtg  | tttttttag  | tgatgttttt  | tctcctctgt | 240  |
| ctcgttgccc | tggagatcaa  | agggttcact  | ttctcagcga | gggggtgccag | ggacagattt | 300  |
| ctaaacaagt | ctggaccgca  | gccaggaaaa  | aagatgaaaa | caacacactg  | taaacagcct | 360  |
| ctattcagca | aacctggtca  | ggtcagaggg  | gctytgagga | aagcaagagg  | gaggcaggag | 420  |
| gagagggaag | cggtggggat  | gtgggggggg  | cgggggcaca | gttatcctga  | atacataaaa | 480  |
| acaagtgagg | tactgaggt   | cagggatagt  | cccaaacatc | cccaagtcca  | gcctttcctg | 540  |
| acaaccaggg | ttacatgcag  | agtcccaggc  | catctgcagg | ttttggaggc  | cctgtgcggg | 600  |
| gcctgggggt | ctatgtttta  | acacgccctt  | gggtggtcc  | aagtycccag  | aascagggga | 660  |
| agggcgantc | atggcctga   | atggcargtg  | gggcagctcc | amctcatcct  | cctacatggc | 720  |
| acccagcact | gggctgcang  | cytggtcccc  | nacttgccgc | aggaatcaat  | cctgccagct | 780  |
| cagagccsc  | gtgtgacaaa  | caccccagga  | acagaggaga | catgagaaa   | ggactcacca | 840  |
| gcccactgcc | caggatgtag  | aagtcgtcgc  | aggagaagat | ggtgccgggg  | taggaggaga | 900  |
| agaccagctt | gttgccggga  | accagcgggt  | agtcacctgt | gcaggcagag  | cgagccaggg | 960  |
| atgctgggtc | gacaggcaca  | ggtggaggcc  | cctgcaccct | acctaacaag  | acacaggcac | 1020 |
| aggggcacag | gcaggccctyc | gaggaagccc  | ccactgtgtc | ctttttgtca  | tttagcaaat | 1080 |
| gaggtcattg | ggcatataaa  | agtgcataata | cgtgcaagta | aaaataaaa   | ctagcagcaa | 1140 |
| aacttatata | gttggscccty | catgtccgtg  | ggttccacat | ccttggtattc | aatsgamtgg | 1200 |
| ggacaaaaaa | tactaggaaa  | aaaacatgat  | taaaaagaaa | caacacagct  | gggtgcagt  | 1260 |
| gytsacacct | gtaatccctg  | cactttggga  | ggccaaggca | ggcggatcac  | gaggtcagga | 1320 |
| gaccaagacc | atcctggcta  | acacggtgaa  | acccgtctct | actaaaaata  | caaaaaaaaa | 1380 |
| aaaaaagggc | ggccgc      |             |            |             |            | 1396 |

<210> 134

<211> 1564

<212> DNA

<213> Homo sapiens

<400> 134

|             |            |             |            |              |            |      |
|-------------|------------|-------------|------------|--------------|------------|------|
| gcggaagggtg | ggctgtgcaa | ccttccctccc | tttctttaa  | gcttggggca   | tttgtctggc | 60   |
| cttccctttt  | actgtggct  | gctgcctgca  | tctgtctctt | aaccttcatt   | aactgtgcct | 120  |
| atgtcaaatg  | gggaaccctg | gtacaagata  | ttttcaccta | tgctaaagta   | ttggaatga  | 180  |
| tcgcggtcat  | cggtgcaggc | attgttagac  | ttggccaggg | agcctctact   | cattttgaga | 240  |
| attcctttga  | gggttcatca | tttgcaagt   | gtgacattgc | cctggcactg   | tactcagctc | 300  |
| tgttctccta  | ctcaggctgg | gacacccctca | actatgtcac | tgaagagatc   | agaatcctg  | 360  |
| agaggaacct  | gcccctctcc | attggcatct  | ccatgcccct | tgtcaccatc   | atctatatct | 420  |
| tgaccaatgt  | ggcctattat | actgtgctag  | acatgagaga | catcttggcc   | agtgatgctg | 480  |
| ttgctgtgac  | ttttgcagat | cagatatattg | gaatatttta | ctggataatt   | ccactgtcag | 540  |
| ttgcattatc  | ctgttttggt | ggcctcaatg  | cctccattgt | ggctgcttctag | ggcttttct  | 600  |
| ttgtgggctc  | aagagaaggc | catctccctg  | atgccatctg | catgatccat   | gttgagcggt | 660  |
| tcacaccagt  | gccttctctg | ctcttcaatg  | gtatcatggc | attgatctac   | ttgtgcgtgg | 720  |
| aagacatctt  | ccagctcatt | aactactaca  | gcttcagcta | ctggttcttt   | gtggggcttt | 780  |
| ctattgtggg  | tcagctttat | ctgcgctgga  | aggagcctga | tcgacctcgt   | cccccaagc  | 840  |
| tcagcgtttt  | cttcccgtat | gtcttctgca  | tctgcaccat | cttctggtg    | gctgttccac | 900  |
| tttacagtga  | tactatcaac | tccctcatcg  | gcattgccat | tgccctctca   | ggcctgccct | 960  |
| tttacttctt  | catcatcaga | gtgccagaac  | ataagcgacc | gcttacctc    | cgaagatcgt | 1020 |
| ggggtctgcc  | acaaggtacc | tccaggctct  | gtgtatgtca | gttgctgcag   | aaatggattt | 1080 |
| ggaagatgga  | ggagagatgc | ccaagcaacg  | ggatcccaag | tctaactaaa   | caccatctgg | 1140 |
| aatcctgatg  | tggaaagcag | gggtttctgg  | tctactggct | agagctaagg   | aagttgaaaa | 1200 |
| ggaaagctca  | cttcttttga | ggcacctgtc  | cagaagcctg | gcctaggcag   | cttcaacctt | 1260 |
| tgaacttact  | ttttgaaatg | aaaagtaatt  | tatttgtttt | gtacataact   | gttcagact  | 1320 |
| tttaaagggg  | acaatgaagg | tgactgtggg  | gaggagcatg | tcaggtttgg   | gcttggttgt | 1380 |

|            |            |            |                     |             |      |
|------------|------------|------------|---------------------|-------------|------|
| tttagaagca | cctgggtgtg | cctacctact | cctcttttctttttaaagg | cccacaatgc  | 1440 |
| tccaatttcc | tgtctccttt | agagagacat | gaaactatca          | cagggtgctgg | 1500 |
| aagtttatgt | tcctaaaaaa | aaaaaaaaaa | aaaaaaaaaa          | aaagggcggc  | 1560 |
| cccg       |            |            |                     |             | 1564 |

<210> 135  
 <211> 1734  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1417)..(1417)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1703)..(1703)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1714)..(1715)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1731)..(1732)  
 <223> n equals a,t,g, or c

|             |            |             |              |             |      |
|-------------|------------|-------------|--------------|-------------|------|
| <400> 135   |            |             |              |             |      |
| gaagcgtg    | gtgccgcagc | aatggcggcg  | ctcacaattg   | ccacgggtac  | 60   |
| ttttcggctt  | tggcgctcgg | ggtgactctt  | ctcaaatgcc   | ttctcatccc  | 120  |
| tccacagatt  | ttgaagtaca | ccgaaactgg  | cttgctatca   | ctcacagttt  | 180  |
| cagtgggtatt | atgaggcaac | ttcagagtgg  | acgttggatt   | accccccttt  | 240  |
| tttgagtata  | tcctgtcaca | tgttgccaaa  | tattttgatc   | aagaaatgct  | 300  |
| aatttgaatt  | actccagctc | aaggacctta  | cttttccaga   | gattttccgt  | 360  |
| gatgtactct  | ttgtgtatgc | tgtccgtgag  | tgctgtaaat   | gcattgatgg  | 420  |
| ggtaaagaac  | ttacagaaaa | gccaaaattt  | attctgtcgg   | tattacttct  | 480  |
| gggttattaa  | ttgtggacca | tattcatttt  | cagtacaatg   | gcttttatt   | 540  |
| ctactctcca  | ttgcacgatt | atttcagaaa  | aggcatatgg   | aaggagcatt  | 600  |
| gttctcctac  | atttcaagca | tatctacctc  | tatgtagcac   | cagcttatgg  | 660  |
| ctgcgatcct  | actgtttcac | tgcaaataaa  | ccagatgggt   | ctattcgatg  | 720  |
| agctttgttc  | gtgttatttc | cctgggactg  | gttgttttct   | tagtttctgc  | 780  |
| ggtcctttcc  | tggccttgaa | tcagctgcct  | caagtctttt   | cccgactctt  | 840  |
| aggggcctct  | gtcatgcata | ttgggctcca  | aacttctggg   | ctttgtacaa  | 900  |
| aaagtgcgtg  | ctgtcatcgg | tttgaaattg  | aaatttcttgat | cccaacaa    | 960  |
| gcctcaatga  | caagtgggtt | ggttcagcag  | ttccaacaca   | cagtccttcc  | 1020 |
| cccttggtgaa | ccctcatctg | cacactgatt  | gccatattgc   | cctctatttt  | 1080 |
| tttaaacc    | aagggccag  | aggctttctc  | cgatgtctaa   | ctctttgtgc  | 1140 |
| tttatgtttg  | ggtggcatgt | tcatgaaaaa  | gccatacttc   | tagcaattct  | 1200 |
| cttttgtctg  | tgggaaaagc | aggagacgct  | tcgatttttc   | tgattctgac  | 1260 |
| cattattccc  | tctttcctct | gctcttcaact | gcaccagaac   | ttcccattaa  | 1320 |
| atgttactat  | tcaccatata | tagtattttcg | tcactgaaga   | ctttatttcag | 1380 |
| cctcttttta  | attggatgga | aactttctac  | ctgcttngcc   | tggggcctct  | 1440 |
| tgtgaatttg  | tattcccttt | cacctcctgg  | aagggtgaagt  | accccttcat  | 1500 |
| ctaacctcag  | tgtattgtgc | agtaggcac   | acatatgctt   | ggttcaaact  | 1560 |
|             |            |             |              | gtatgtttca  |      |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gtattgattg | actctgctat | tggcaagaca | aagaaacaat | gaataaagga | actgcttaga | 1620 |
| aaaaaaaaaa | aaaaaaaaaa | aaagggcggc | cgctctagag | gatccctcga | gggcccaagc | 1680 |
| ttacgcgtgc | atgcgagtca | tantctctcc | tggntgatc  | gtatgaagct | nngc       | 1734 |

<210> 136  
 <211> 2916  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 136  |             |             |             |             |             |      |
| ccacgcgtcc | gctagcccgg  | gcgagagccac | agtcctagag  | gctgagcgca  | gtcggagctg  | 60   |
| tcccatttac | ccgacccgac  | gccggcggtga | tgtggcttcc  | gctgggtgctg | ctcctgggctg | 120  |
| tgtgctgct  | ggcgcgtcctc | tgcaaaagttt | acttgggact  | attctctggc  | agctccccga  | 180  |
| atcctttctc | cgaagatgtc  | aaacggcccc  | cagcgccct   | ggtaactgac  | aaggaggcca  | 240  |
| ggaagaaggt | tctcaaaaca  | ggaatccatt  | acattgggcg  | tatggaagag  | ggcagcattg  | 300  |
| gccgttttat | cttgaccag   | atcactgaag  | ggcagctgga  | ctgggctccc  | ctgtcctctc  | 360  |
| cttttgacat | catggtactg  | gaagggccca  | atggccgaaa  | ggagtacccc  | atgtacagtg  | 420  |
| gagagaaagc | ctacattcag  | ggcctcaagg  | agaagtttcc  | acaggaggaa  | gctatcattg  | 480  |
| acaagtatat | aaagctgggt  | aaggtgggat  | ccagtggagc  | ccctcatgcc  | atcctgttga  | 540  |
| aattcctccc | attgcccgtg  | gttcagctcc  | tcgacaggtg  | tgggctgctg  | actcgtttct  | 600  |
| ctccattctc | tcaagcatcc  | accagagcc   | tggctgaggt  | cctgcagcag  | ctgggggcct  | 660  |
| cctctgagct | ccaggcagta  | ctcagctaca  | tcttccccac  | ttacggtgtc  | accccccaacc | 720  |
| acagtgcctt | ttccatgcac  | gccctgctgg  | tcaaccacta  | catgaaagga  | ggctttttatc | 780  |
| cccgaggggg | ttccagtga   | attgccttcc  | acaccatccc  | tgtgattcag  | cgggctgggg  | 840  |
| gcgctgtcct | cacaaaggcc  | actgtgcaga  | gtgtgttgct  | ggactcagct  | gggaaagcct  | 900  |
| gtggtgtcag | tgtgaagaag  | gggcatgagc  | tgggtgaacat | ctattgcccc  | atcgtgggtct | 960  |
| ccaacgcagg | actgttcaac  | acctatgaac  | acctactgcc  | ggggaacgcc  | cgccctgc    | 1020 |
| caggtgtgaa | gcagcaactg  | gggacggtgc  | ggccccgctt  | aggcatgacc  | tctgttttca  | 1080 |
| tctgcctcgc | aggcaccaag  | gaagacctgc  | atctgcgctc  | caccaactac  | tatgtttact  | 1140 |
| atgacacgga | catggaccag  | gcgatggagc  | gctacgtctc  | catgcccagg  | gaagaggctg  | 1200 |
| cggaacacat | ccctcttctc  | ttcttcgctt  | tcccatcagc  | caaagatccg  | acctggggagg | 1260 |
| accgattccc | aggccgggtcc | accatgatca  | tgtcataacc  | cactgcctac  | gagtggtttg  | 1320 |
| aggagtggca | ggcggagctg  | aagggaaaagc | ggggcagtga  | ctatgagacc  | ttcaaaaact  | 1380 |
| cctttgtgga | agcctctatg  | tcagtgggtcc | tgaactgtt   | cccacagcg   | gaggggaagg  | 1440 |
| tggagagtgt | gactgcagga  | tccccactca  | ccaaccagtt  | ctatctggct  | gctccccgag  | 1500 |
| gtgcctgcta | cggggctgac  | catgacctgg  | gccgcctgca  | cccttgtgtg  | atggcctcct  | 1560 |
| tgaggggcca | gagccccatc  | cccaacctct  | atctgacagg  | ccaggatatc  | ttcacctgtg  | 1620 |
| gactggtcgg | ggccctgcaa  | ggtgccttgc  | tgtgcagcag  | cgccatcctg  | aagcggaaact | 1680 |
| tgtactcaga | ccttaagaat  | cttgattcta  | ggatccggggc | acagaagaaa  | aagaattagt  | 1740 |
| tccatcaggg | aggagtcaga  | ggaatttgcc  | caatggctgg  | ggcatctccc  | ttgacttacc  | 1800 |
| cataatgtct | ttctgcatta  | gttccttgca  | cgtataaagc  | acttaattt   | ggttctgatg  | 1860 |
| cctgaagaga | ggcctagtgt  | aaatcacaaat | tccgaatctg  | gggcaatgga  | atcactgctt  | 1920 |
| ccagctgggg | caggtgagat  | ctttacgcct  | tttataacat  | gccatcccta  | ctaataggat  | 1980 |
| attgacttgg | atagcttgat  | gtctcatgac  | gagcggcgct  | ctgcatccct  | cacccatgcc  | 2040 |
| tcctaactca | gtgatcaaa   | cgaatattcc  | atctgtggat  | agaacccctg  | gcagtgttgt  | 2100 |
| cagctcaacc | tgggtgggttc | agttctgtcc  | tgaggcttct  | gctctcattc  | atttagtgtct | 2160 |
| acgctgcaca | gttctacact  | gtcaagggaa  | aagggagact  | aatgaggctt  | aactcaaaac  | 2220 |
| ctgggcatgg | ttttggttgc  | cattccatag  | gtttggaag   | ctctagatct  | cttttgtgct  | 2280 |
| gggttcagt  | gctcttcagg  | ggacaggaaa  | tgcctgtgtc  | tggccagtgt  | ggttctggag  | 2340 |
| ctttggggta | acagcaggat  | ccatcagtta  | gtagggtgca  | tgtcagatga  | tcatatccaa  | 2400 |
| ttcatatgga | agtccccggg  | ctgtcttctc  | tatcatcggg  | gtggcagctg  | gttctcaatg  | 2460 |
| tgccagcagg | gactcagtac  | ctgagcctca  | atcaagcctt  | atccacccaa  | tacacaggga  | 2520 |
| agggatgatc | agggaaaggt  | gacatcagga  | gtcagggcat  | ggactggtaa  | gatgaatact  | 2580 |
| ttgctgggct | gaagcaggct  | gcagggcatt  | ccagccaagg  | gcacagcagg  | ggacagtgca  | 2640 |
| gggaggtgtg | gggtaagggg  | gggaagtcac  | atagaaaaag  | ggaaagccac  | ggaatgtgtg  | 2700 |
| tgaagcccag | aaatggcatt  | tgcagttaat  | tagcacatgt  | gagggttaga  | caggtagggtg | 2760 |
| aatgcaagct | caaggtttgg  | aaaaatgact  | tttcagttat  | gtcttttgga  | tcagacatac  | 2820 |

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| gaaaggtctc  | tttgtagttc  | gtgttaaatgt | aacattaata | aattttattga | ttccattgct | 880  |
| ttaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaa    |             |            | 2916 |

<210> 137  
 <211> 1748  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |            |            |      |
|------------|-------------|------------|-------------|------------|------------|------|
| <400> 137  |             |            |             |            |            |      |
| agacgttccc | tcgcggccct  | ggcacctcca | accccagata  | tgctgctgct | gctgctgctg | 60   |
| cccctgctct | gggggagggg  | gaggggtgaa | gacagaaga   | gtaaccggaa | ggattactcg | 120  |
| ctgacgatgc | agagttccgt  | gaccgtgcaa | gagggcatgt  | gtgtccatgt | gcgctgctcc | 180  |
| ttctcctacc | cagtggacag  | ccagactgac | tctgacctag  | ttcatggcta | ctgggtccgg | 240  |
| gcagggaatg | atataagctg  | gaaggctcca | gtggccacaa  | acaaccagc  | ttgggcagtg | 300  |
| caggaggaaa | ctcgggaccg  | attccacctc | cttggggacc  | cacagaccaa | aaattgcacc | 360  |
| ctgagcatca | gagatgccag  | aatgagtgat | gcggggagat  | acttctttcg | tatggagaaa | 420  |
| ggaaatataa | aatggaatta  | taaatatgac | cagctctctg  | tgaacgtgac | agccttgacc | 480  |
| cacaggccca | acatccttat  | ccccgtacc  | ctggagtctg  | gctgcttcca | gaatctgacc | 540  |
| tgtctgtgtc | cctgggacct  | tgagcagggg | acgcccccta  | tgatctcctg | gatggggacc | 600  |
| tctgtgtctc | cctgcacccc  | ctccaccacc | cgctcctcag  | tgctcaccct | catcccacag | 660  |
| ccccagcacc | acggcaccag  | cctcacctgt | caggtgacct  | tgctggggc  | cggcgtacc  | 720  |
| acgaacagga | ccatccaact  | caatgtgtcc | tacctcctc   | agaacttgac | tgtgactgtc | 780  |
| ttccaaggag | aaggcacagc  | atccacagct | ctggggaaaca | gctcatctct | ttcagtccta | 840  |
| gagggccagt | ctctgcgctt  | ggtctgtgct | gttgacagca  | atccccctgc | caggctgagc | 900  |
| tggacctgga | ggagtctgac  | cctgtacccc | tcacagccct  | caaaccctct | ggtactggag | 960  |
| ctgcaagtgc | acctggggga  | tgaaggggaa | ttcacctgtc  | gagctcagaa | ctctctgggt | 1020 |
| tcccagcacg | tttccctgaa  | cctctccctg | caacaggagt  | acacaggcaa | aatgaggcct | 1080 |
| gtatcaggag | tgttgctggg  | ggcggctcgg | ggagctggag  | ccacagccct | gtcttctctc | 1140 |
| tccttctgtg | tcattcttcat | tgtagtggag | tcctgcagga  | agaaatcggc | aaggccagca | 1200 |
| gcggacgtgg | gagacatagg  | catgaaggat | gcaaacacca  | tcaggggctc | agcctctcag | 1260 |
| ggtaacctga | ctgagtcctg  | ggcagatgat | aacccccgac  | accatggcct | ggctgcccac | 1320 |
| tcctcagggg | aggaaagaga  | gatccagtat | gcacccctca  | gctttcataa | gggggagcct | 1380 |
| caggacctat | caggtcaaga  | agccaccaac | aatgagtact  | cagagatcaa | gatccccaag | 1440 |
| taagaaaatg | cagaggctcg  | ggcttggttg | agggttcacg  | acccctccag | caaaggagtc | 1500 |
| tgaggctgat | tccagtga    | ttagcagccc | tcaatgctgt  | gcaacagac  | atcagaactt | 1560 |
| attcctcttg | tctaactgaa  | aatgcatgcc | tgatgaccaa  | actctccctt | tccccatcca | 1620 |
| atcggtccac | actccccgcc  | ctggcctctg | gtacccacca  | ttctcctctg | tacttctcta | 1680 |
| aggatgacta | ctttagattc  | cgaatatagt | gagattgtaa  | cgtgaaaaaa | aaaaaaaaaa | 1740 |
| aaaaaaaaa  |             |            |             |            |            | 1748 |

<210> 138  
 <211> 3116  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 138   |             |             |             |             |             |     |
| ggtgataatg  | aaagtgggtg  | tggatgatgt  | ggtaataactg | gtgggtggtga | cattgggtggt | 60  |
| ggtgggtgat  | gtgggtgatac | tggatgatgt  | ggtgatgggtg | gtgggctgg   | tgaccctgac  | 120 |
| atgggggtcca | gtagcagtg   | cagtggatgc  | aggctcctgg  | tgactgagga  | gcattctcagg | 180 |
| ctgrggaggc  | acctctgac   | cccgccactg  | ctccttacct  | cctacagtct  | ctcagcaaac  | 240 |
| ctgctggggc  | acagcggact  | cagatgcctt  | ctggaatgtc  | tgccgcagtg  | cccatctccg  | 300 |
| gtttgcttga  | tctgagtcac  | aacagcattt  | ctcaggaaaag | tgccctgtac  | ctgctggaga  | 360 |
| cactgccctc  | ctgcccacgt  | gtccggggagg | cctcagtga   | cctgggctct  | gagcagagct  | 420 |
| tccggattca  | cttctccaga  | gaggaccagg  | ctgggaagac  | actcaggcta  | agtgagtgca  | 480 |
| cgctccggcc  | agagcacgtg  | tccaggctgg  | ccaccggcttg | gagcaagtcc  | ctgcagctga  | 540 |
| gctgctccac  | gctgacctac  | tgctgctctg  | gccagaagca  | gctggccatc  | ctcctgagct  | 600 |
| tgggtggggc  | acccgcaggg  | ctgttcagcc  | tcagggtgca  | ggagccgtgg  | gcggacagag  | 660 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ccagggttct  | ctccctgtta  | gaagtctgcg  | cccaggcctc | aggcagtgtc | actgaaatca  | 720  |
| gcatctccga  | gaccagcgag  | cagctctgtg  | tccagctgga | atttcctcgc | caggaagaga  | 780  |
| atccagaagc  | tgtggcactc  | aggttggctc  | actgtgacct | tggagcccac | cacagccttc  | 840  |
| ttgycgggca  | gctgatggag  | acatgtgcc   | ggctgcrzca | gctcagcttg | tctcaggtta  | 900  |
| acctctgtga  | ggacgatgat  | gccagttccc  | tgtgtctgca | gagcctcctg | ctgtccctct  | 960  |
| ctgagctgaa  | gacatttcgg  | ctgacctcca  | gctgtgtgag | caccgagggc | ctcgcccacc  | 1020 |
| tggcatctgg  | tctggggccac | tgccaccact  | tggaggagct | ggacttgtct | aacaatcaat  | 1080 |
| ttgatgagga  | gggcaccaag  | gcgctgatga  | gggcccttga | ggggaaatgg | atgctaaaga  | 1104 |
| ggctggacct  | cagtcacctt  | ctgctgaaca  | gctccacctt | ggccttgctt | actcacagac  | 1200 |
| taagccagat  | gacctgcctg  | cagagcctca  | gactgaacag | gaacagtatc | ggtgatgtcg  | 1260 |
| gttgctgcca  | cctttctgag  | gctctcaggg  | ctgccaccag | cctagaggag | ctggacttga  | 1320 |
| gccacaacca  | gattggagac  | gctggtgtc   | agcacttagc | taccatcctg | cctgggctgc  | 1380 |
| cagagctcag  | gaagatagac  | ctctcaggga  | atagcatcag | ctcagccggg | ggagtgcagt  | 1440 |
| tggcagagtc  | tctcgttctt  | tgcaggcgcc  | tggaggagtt | gatgcttggc | tgcaatgccc  | 1500 |
| tgggggatcc  | cacagccctg  | gggctggctc  | aggagctgcc | ccagcacctg | agggtcctac  | 1560 |
| acctaccatt  | cagccatctg  | ggcccagggt  | ggccctgag  | cctggccagg | ccctggatgg  | 1620 |
| atccccccat  | ttggaagaga  | tcagcttggc  | ggaaaacaac | ctggctggag | gggtcctgcg  | 1680 |
| tttctgtatg  | gagctcccgc  | tgctcagaca  | gatagacctg | gtttcctgta | agattgacaa  | 1740 |
| ccagactgcc  | aagctcctca  | cctccagctt  | cacgagctgc | cctgccctgg | aagtaatctt  | 1800 |
| gctgtcctgg  | aatctcctcg  | gggatgaggc  | agctgccgag | ctggcccagg | tgctgccgca  | 1860 |
| gatgggcccg  | ctgaagagag  | tggacctgga  | gaagaatcag | atcacagctt | tgggggctcg  | 1920 |
| gctcctggct  | gaaggactgg  | cccaggggct  | tagcatccaa | gtcatccgcc | tctgaataa   | 1980 |
| ccccattccc  | tgcgacatgg  | cccagcacct  | gaagagccag | gagcccaggc | tggactttgc  | 2040 |
| cttctttgac  | aaccagcccc  | aggccccttg  | gggtacttga | tggccccctc | aagacctttg  | 2100 |
| gaatccagcc  | aagtgatgca  | cccaaatgat  | ccacctttcg | cccactggga | taattgactc  | 2160 |
| aggaaagaag  | agcctcgga   | gggcgctctg  | cactccaccc | aggaggaagg | atacgtgtgt  | 2220 |
| cctgctgcag  | tcctcaggga  | gaactttttt  | gggaaccagg | agctgggtct | ggacaaagga  | 2280 |
| gtaccctgca  | ttacgtggga  | tatgtgtgat  | caattgggga | catgacacac | acaatgaggg  | 2340 |
| tgtcatgaca  | atgcatgaca  | cgtacggtta  | tatgtggcag | tgtgacct   | tgacatgtgg  | 2400 |
| cgttacatga  | aagtcagtgt  | ggcacgtgtt  | ctgtggcatg | ggtgctggca | tcccaagtag  | 2460 |
| caggatacat  | gattgtttgt  | ctatatatga  | cacatgacaa | atgtccatgt | cacaggactc  | 2520 |
| atggctggcc  | agatgacctc  | aggctggccc  | aagatcta   | ttattaattt | ttaaagcaaa  | 2580 |
| tacatatatta | tagattgtgt  | gtatggagca  | gctaagtcag | gaaaagtctt | ccgcccagagc | 2640 |
| tgggagggga  | gagtgtccat  | gcactgacca  | gtccaggggc | tcaagggcca | gggctctgga  | 2700 |
| acaagccagg  | gactcagcca  | ttaagtcccc  | tcttgcccta | atcctcagcc | taccatcta   | 2760 |
| taaaacttgat | gactcctccc  | ttactttacat | actagcttcc | aagacagggt | ggaggtaggg  | 2820 |
| ccagcctggc  | gggagtggag  | aagcccagtc  | tgtcctatgt | aagggaacaa | gccagggtcta | 2880 |
| atgggtactgg | gtagggggca  | ctgccaagac  | aataagctag | gctactgggt | ccagctacta  | 2940 |
| ctttgggtggg | attcagggtga | gtctccatgc  | acttcacatg | ttaccagctg | ttcttgttac  | 3000 |
| ttccaaggag  | aaccaagaat  | ggctctgtca  | cactcgaagc | caggcttgat | caataaacac  | 3060 |
| aatggtattc  | caaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | ctcgag      | 3116 |

<210> 139

<211> 2339

<212> DNA

<213> Homo sapiens

<400> 139

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| cccacgcgtc  | cggggatggt  | tgcgagcggc | tggaaaccaga | cgtgccgat   | agaggaagcg  | 60  |
| ggctccatgg  | ctgccctcct  | gctgctgccc | ctgctgctgt  | tgctaccgct  | gctgctgctg  | 120 |
| aagctacacc  | tctggccgca  | gttgcgctgg | cttcggcgcg  | acttggcctt  | tgcgggtgcga | 180 |
| gctctgtgct  | gcaaaagggc  | tcttcgagcc | cgcgccttgg  | ccgcggctgc  | cgccgacccg  | 240 |
| gaagggtccc  | aggggcccctg | catectggcc | tggcgccctg  | cggaactggc  | ccagcagcgc  | 300 |
| gcgcgaaact  | ttctattacg  | gtcgcgcgct | ttagctactc  | agaggcgag   | cgcgagagta  | 360 |
| acagggtctga | cgcgccttcc  | tacgtgcgct | aggctgggac  | tggggacccg  | acggcgcgca  | 420 |
| cagcggcgag  | gggagcgctg  | gagaaggcga | gcgggcgcg   | ccggaagccg  | gagatgcagc  | 480 |
| ggccgggaagc | ggcgcgaggt  | ttgccggagg | ggacgggtgcc | gccagagggtg | gaggagccgc  | 540 |



|             |              |            |            |             |             |      |
|-------------|--------------|------------|------------|-------------|-------------|------|
| gccctctgt   | cacctggagc   | aactgtggcg | ctgctcctcc | ccgctggccc  | agagtttctg  | 600  |
| tggtcttgga  | tcgggctggc   | caaggccggc | ctgcgcactg | cctttgtgcc  | caccgccctg  | 660  |
| cgcgggggccc | ccctgctgca   | ctgcctccgc | agctgcggcg | cgcgcgcgct  | ggtgctggcg  | 720  |
| ccagagtttc  | tggagtcctt   | ggagccggac | ctgcccggcc | tgagagccat  | ggggctccac  | 780  |
| ctgtgggctg  | caggcccagg   | aaccacacct | gctggaatta | gcgatttgct  | ggctgaagtg  | 840  |
| tccgctgaag  | tggtatgggccc | agtgccagga | tacctctctt | ccccccagag  | cataacagac  | 900  |
| acgtgcctgt  | acatcttcac   | ctctggcacc | acgggcctcc | ccaaggctgc  | tcggatcagt  | 960  |
| catctgaaga  | tcctgcaatg   | ccagggtctc | tatcagctgt | gtgggtgtcca | ccaggaagat  | 1020 |
| gtgatctacc  | tcgcccctccc  | actctaccac | atgtccggtt | ccctgctggg  | catcgtgggc  | 1080 |
| tgcattgggca | ttggggccac   | agtgggtctg | aaatccaagt | tctcggctgg  | tcagttctgg  | 1140 |
| gaagattgcc  | agcagcacag   | ggtgacggtg | ttccagtaca | ttggggagct  | gtgccgatac  | 1200 |
| cttgtcaacc  | agcccccgag   | caaggcagaa | cgtggccata | aggtccggct  | ggcagtgggc  | 1260 |
| agcgggctgc  | gccagatac    | ctgggagcgt | tttgtgcggc | gcttcggggc  | cctgcagggtg | 1320 |
| ctggagacat  | atggactgac   | agagggcaac | gtgccaccat | caactacaca  | ggacagcggg  | 1380 |
| gcgctgtggg  | cgtgcttccc   | tggttttaca | agcatatctt | ccccctctcc  | ttgattcgct  | 1440 |
| atgatgtcac  | cacaggagag   | ccaattcggg | accagggggc | actgtatggc  | cacatctca   | 1500 |
| gggagcaggg  | ctgctgggtg   | ccccggtaag | ccagcagtc  | ccattcctgg  | gctatgctgg  | 1560 |
| cgggccagag  | ctggcccagg   | ggaagtgtct | aaaggatgtc | ttccggcctg  | gggatgtttt  | 1620 |
| cttcaacact  | gggacctgct   | ggtctgcatg | accaagggtt | tctccgcttc  | catgatcgta  | 1680 |
| ctggagacac  | cttcagggtg   | aagggggaga | atgtggccac | aaccgaggtg  | gcagaggtct  | 1740 |
| tcgaggccct  | agattttctt   | caggaggtga | acgtctatgg | agtcatgtgc  | cagggcatga  | 1800 |
| aggcagggct  | ggaatggcag   | ccctaattct | cgtccccccc | cacgctttgg  | accttatgca  | 1860 |
| gctctacacc  | cacgtgtctg   | agaacttgcc | accttatgcc | cggccccgat  | ctcagggt    | 1920 |
| ccggagtctt  | tggccccaca   | gagaccttca | aacagcagaa | aagttcggat  | ggcaaatgag  | 1980 |
| ggcttcgacc  | ccagcacctt   | gtctgacca  | ctgtacgttc | tggaccaggc  | tgtaggtgcc  | 2040 |
| tacctgcccc  | tcacaactgc   | ccgtacagt  | gccctcctgg | caggaaacct  | tcgaatctga  | 2100 |
| gaacttccac  | acctgaggca   | cctgagagag | gaactctgtg | gggtgggggc  | cgttgacagt  | 2160 |
| gtactgggct  | gtcagggatc   | ttttctatac | cagaactgcg | gtcactatct  | tgtataaat   | 2220 |
| gtggctggag  | ctgatccagc   | tgtctctgac | tacaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 2280 |
| aaaaaaaaaa  | aaaaaaaaaa   | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 2339 |

<210> 140

<211> 2679

<212> DNA

<213> Homo sapiens

<400> 140

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| ccacgcgtcc  | gcctcagcgg | ccggggccac | ggccccgagc | agccatgctg | ggcgcgcggg | 60   |
| cctgggttggg | ccgcgtcctt | ctgctgcccc | gcgcgggtgc | aggcctcgcc | gcaagccgca | 120  |
| ggtgtccttg  | agtctggccc | aggacctggc | cccacaggag | tcccagcagg | gtagctcct  | 180  |
| ccggggacaa  | ggaccgaagt | gcgacggtca | gtagttcagt | gcccattgct | gctggaggga | 240  |
| aaggaagcca  | tccttcattc | acaccccaga | gggtcccca  | ccgcctgac  | cacgagaagt | 300  |
| caccatacct  | cctacaacat | gcctacaatc | ctgtggactg | gtaccctgg  | ggacaggaag | 360  |
| ccttcgacaa  | ggccaggaag | gaaaacaagc | cgattttcct | ctcagtcggg | tactccacct | 420  |
| gccactggtg  | ccacatgatg | gaagaggagt | ccttcacaga | tgaggagatt | ggcgcctgc  | 480  |
| tcagttagga  | ctttgtgagt | gtgaaggtag | accgttagga | gcggcctgac | gtggacaagg | 540  |
| tgtacatgac  | gttcgtgcag | gccaccagca | gcggcggggg | ctggcccatg | aatgtgtggc | 600  |
| tgaactccaa  | cctccagccc | tttgtcgggg | gcacctatct | ccctcctgag | gatggcttga | 660  |
| cccagatcgg  | cttcgcgaca | gtgttgctga | gaatacagga | acagtggaaa | cagaacaaga | 720  |
| acaccctgct  | agaaaatagc | cagcgtgtca | ccactgccct | gctggcccga | tcagagatca | 780  |
| gcgtgggtga  | ccgccagctg | ccgccctctg | ccgccaccgt | gaacaatcgc | tgcttccagc | 840  |
| agctggatga  | gggctatgat | gaggaatacg | gtggcttcgc | tgaggccccc | aagtttccca | 900  |
| cgcgggtgat  | cctgagcttc | ctgttctcct | actggctcag | ccatcgactg | actcaggatg | 960  |
| gctctcgggc  | ccagcagatg | gccttgcata | ccctgaaaat | gatggctaac | gggggcatcc | 1020 |
| gggaccatgt  | ggggcagggc | tttcaccgct | actccacaga | ccgccagtgg | cacgtccctc | 1080 |
| acttttagaa  | gatgctctat | gaccaggcac | agctcgtgtg | ggcctattcg | caggccttcc | 1140 |
| agctctcttg  | tgatgaattc | tactctgacg | tggcaaaagg | catcctgcag | tacgtggctc | 1200 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| ggagcctgag | ccaccggtcc | ggaggcttct | atagcgcaga | agatgcagac  | tcgccccag  | 1260 |
| agcggggcca | gcggcccaaa | gagggcgcct | actatgtgtg | gacggtcaaa  | gaggttcagc | 1320 |
| agctcctccc | ggagcctgtg | ttgggtgcca | ccgagccgct | gacctcaggc  | cagctcctca | 1380 |
| tgaagcacta | cggcctcaca | gaggctggta | acatcagccc | cagtcaggac  | cccaaggggg | 1440 |
| agctgcaggg | ccagaatgtg | ctgaccgtcc | ggtactcgct | ggagctgact  | gctgcccgt  | 1500 |
| ttggcttgga | tgtggaggcc | gtgcggacct | tgctcaattc | agggctggag  | aagctcttcc | 1560 |
| aggcccggaa | gcatcggccc | aagccgcam  | tggacagcaa | gatgctggct  | gcctggaatg | 1620 |
| gcttgatggg | gtcaggctat | gctgtgactg | gggctgtcct | gggccaagac  | aggctgatca | 1680 |
| actatgccac | caatgggtgc | aagttcctga | agcggcacat | gtttgatgtg  | gccagtggcc | 1740 |
| gcctgatgcg | gacctgctac | accggccctg | gggggactgt | ggagcacagc  | aaccaccct  | 1800 |
| gctggggctt | cctggaggac | tacgccttcg | tggtgcgggg | cctgctggac  | ctgtatgagg | 1860 |
| cctcacagga | gagtgcgtgg | ctcgagtggg | ctctgcggct | gcaggacaca  | caggacaggc | 1920 |
| tctttttgga | ctcccagggt | ggcggctact | tctgcagtga | ggctgagctg  | ggggctggcc | 1980 |
| tgcccctgcg | tctgaaggac | gaacaggatg | gagcagagcc | cagcgccaat  | tccgtgtcag | 2040 |
| cccacaacct | gctccggctg | catggcttca | cgggccacaa | ggactggatg  | gacaagtgtg | 2100 |
| tgtgcctatt | gaccgccttt | tccgagcgca | tgcgtcgtgt | cccgggtggc  | ttgcccgaga | 2160 |
| tggtccgcgc | cctctcagcc | cagcagcaga | ccctcaagca | gatcgtgatc  | tgtgagacc  | 2220 |
| gtcaggccaa | ggacaccaag | gccctgggtg | agtgcgtcca | ctctgtctac  | attcctaaca | 2280 |
| aggtgctgat | tctggctgat | ggggaccct  | cgagcttctt | gtcccgccag  | ctgcctttcc | 2340 |
| tgagtacctt | ccgacggttg | gaagaccagg | ccactgcata | tgtgtgtgag  | aatcaagcct | 2400 |
| gctcagtgcc | catcactgat | ccctgcgaat | tacgaaaact | actacatcca  | tgactgcccc | 2460 |
| aaccccttg  | gggtggggca | gaaggtgaag | catcccaact | gactagagac  | tcaggccctg | 2520 |
| cagggcccta | tagaacctgt | ggccatccct | gagcaccctg | ccaccagggtg | acctcggcca | 2580 |
| tactcactgc | cccccttggg | caccactca  | ccctagaata | aacttaacg   | tgtcccgtgg | 2640 |
| taaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | ggcggccgc  |             |            | 2679 |

<210> 141

<211> 1277

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1207)..(1207)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1272)..(1272)

<223> n equals a,t,g, or c

<400> 141

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cgtttattca  | gcagaacatc  | agcttcctgc | tgggctacag | catccctgtg  | ggctgtgtgg | 60  |
| gcctggcatt  | tttcatcttc  | ctctttgcca | ccccgtctt  | catcaccaag  | ccccgatgg  | 120 |
| gcagccaagt  | gtcctctatg  | cttaagctcg | ctctccaaa  | ctgctgcccc  | cagctgtggc | 180 |
| aacgacactc  | ggccagagac  | cgtcaatgtg | cccgcgtgct | ggccgacgag  | aggtctcccc | 240 |
| agccaggggc  | ttccccgcaa  | gaggacatcg | ccaacttcca | ggtgctgggtg | aagatcttgc | 300 |
| cogtcatggg  | gaccctgggtg | ccctactgga | tggtctactt | ccagatgcag  | tccacctatg | 360 |
| tctgtgcgct  | tcttcacctc  | cacatcccaa | acattttccc | agccaaccgg  | gccaacatct | 420 |
| ctgtggccct  | gagagcccag  | ggcagcagct | acacgatccc | ggaagcctgg  | ctcctcctgg | 480 |
| ccaatgttgt  | gggtgtgtctg | attctgggtc | ctctgaagga | ccgcttgatc  | gaccctttac | 540 |
| tgctgcgggtg | caagctgctt  | ccctctgctc | tgagaagat  | ggcgtgggg   | atgttctttg | 600 |
| gttttacctc  | cgtcattgtg  | gcaggagtcc | tggagatgga | gcgcttacac  | tacatccacc | 660 |
| acaacgagac  | cgtgtcccag  | cagattgggg | aggtcctgta | caacgcggca  | ccactgtcca | 720 |
| tctgggtggca | gatccctcag  | tacctgtctc | ttgggatcag | tgagatcttt  | gccagcatcc | 780 |
| caggcctgga  | gtttgcctac  | tcagaggcca | cgcgtcccat | gcaggcgcc   | atcatgggca | 840 |
| tcttcttctg  | cctgtcgggg  | gtgggctcac | tgttgggctc | cagcctagtg  | gcactgctgt | 900 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| ccttgccccg | gggctggctg | cactgccccca | aggacttttg | gaacatcaac | aattgcccga | 960  |
| tggacctcta | cttcttcctg | ctggctgga   | ttcaggccgt | cacggctctc | ctatttgtct | 1020 |
| ggatcgctgg | acgctatgag | agggcgcccc  | agggcccagc | ctcccacagc | cgtttcagca | 1080 |
| gggacagggg | ctgaacaggc | cctattccag  | cccccttgct | tcactctacc | ggacagacgg | 1140 |
| cagcagtccc | agctctgggt | tccttctcgg  | tttattctgt | tagaatgaaa | tggttccca  | 1200 |
| aaataanggg | catgagccct | tcctcaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1260 |
| aaaaaaaaaa | anaaaaa    |             |            |            |            | 1277 |

<210> 142  
 <211> 1266  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 142  |            |            |            |            |            |      |
| tgcacccacg | cgtccgtttt | cagcagatt  | ttcctttcag | tgaacataa  | tttgacttga | 60   |
| aaggaaccca | gggaaaagt  | tccaggtgtg | agcatgagcg | ggtagaggtg | tgcccttggt | 120  |
| tgcttcaggc | tgtctgcttt | tgcacctga  | ctgttttttc | tgtttctggc | catggaggaa | 180  |
| gagaaagatg | acagcccaca | ggctgacttc | tgccctggga | ccgccctgca | ctcttggga  | 240  |
| ctgtggttca | cggaggaagg | ttcaccgctc | accatgctga | cggggattgc | agttggagcc | 300  |
| ctcctggccc | tgcccttggt | tggtgtcctc | atccttttca | tgttcagaag | gcttagacaa | 360  |
| tttcgacaag | cacagcccac | tcctcagtac | cggttccgga | agagagacaa | agtgatgttt | 420  |
| tacggccgga | agatcatgag | gaagtgacc  | acactcccca | acacccttgt | ggagaacact | 480  |
| gccctgcccc | ggcagcgggc | caggaagagg | accaaggtgc | tgtctttggc | caagaggatt | 540  |
| ctgcgtttca | agaaggaata | cccggccctg | cagcccaagg | agcccccgcc | ctccctgctg | 600  |
| gaggccgacc | tcacggagtt | tgacgtgaag | aattctcacc | tgccatcgga | agtctgtac  | 660  |
| atgctgaaaa | acgttcgggt | cctgggccac | tttgagaagc | cgtgttccct | ggagctttgc | 720  |
| aaacacatcg | tctttgtgca | gctgcaggaa | ggggagcacg | tcttccagcc | cagggagccg | 780  |
| gaccccagca | tctgtgtggt | gcaggacggg | cggctggagg | tctgcatcca | ggacactgac | 840  |
| ggcaccggag | tggtggtgaa | agaggttctg | gcgggagaca | gcgtccacag | cctgctcagc | 900  |
| atcctggaca | tcatacccg  | ccatgctgca | ccttcaaaa  | cggctctccg | ccgcgcggcc | 960  |
| atcccgctct | ccatcctcgg | gcttccagct | gcggcttttc | atggagtttt | tgagaaatat | 1020 |
| ccggaaactc | tggtgaggg  | ggtgcagatc | atcatggtgc | ggctgcgag  | ggtgaccttt | 1080 |
| ctggctctgc | acaactacct | cggcctgacc | acagagctct | tcaacgctga | gagccaggcc | 1140 |
| atccctctcg | tgtctgtagc | cagtgtggct | gccgggaagg | ccaagaagca | ggtgttctat | 1200 |
| ggcgaagaag | agcggcttaa | aaagccaccg | cggctccagg | agtcctgtga | ctcagatcac | 1260 |
| gggggc     |            |            |            |            |            | 1266 |

<210> 143  
 <211> 2803  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 143   |            |            |            |            |            |     |
| cccacgcgtc  | cgcgacccac | gcgtccgggg | ggaggtaact | gcagtaagtc | ccgcttgggc | 60  |
| ctggagtcca  | cgcggttttt | cgaagctggg | gctggcaaga | ggccgtgga  | caccacgctc | 120 |
| cagtgcgcag  | cccacttcct | agctgaacag | cgcgaggcgg | cggcagcgag | ccgggtccca | 180 |
| ccatggccgc  | gaattattcc | agtaccagta | cccggagaga | acatgtcaaa | gttaaaacca | 240 |
| gctcccagcc  | aggtttcctg | gaacggctga | gcgagacctc | gggtgggatg | tttgtggggc | 300 |
| tcattggcctt | cctgctctcc | ttctacctaa | ttttcaccaa | tgaggggccg | gcattgaaga | 360 |
| cggcaacctc  | attggctgag | gggctctcgc | tttgtgtgtc | tcccgacagc | atccacagt  | 420 |
| tggtctccgga | gaatgaagga | aggctgggtg | acatcattgg | cgcttacagg | acatccaagc | 480 |
| ttttgtctga  | tccaaactat | gggtccatc  | ttccggctgt | gaaactgcgg | aggcacgtgg | 540 |
| agatgtacca  | atgggtagaa | actgaggagt | ccaggagta  | caccgaggat | gggcagggtg | 600 |
| agaaggagac  | gaggtattcc | tacaacctg  | aatggaggtc | agaaatcatc | aacagcaaaa | 660 |
| acttcgaccg  | agagattggc | cacaaaaacc | ccagtgccat | ggcagtggag | tcattcatgg | 720 |
| caacagcccc  | ctttgtccaa | attggcaggt | tttctctctc | gtcaggcctc | atcgacaaag | 780 |
| tcgacaactt  | caagtccctg | agcctatcca | agctggagga | ccctcatgtg | gacatcattc | 840 |

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| gccgtggaga | ctttttctac  | cacagcgaaa  | atcccaagta  | tccagaggtg | ggagacttgc  | 900  |
| gtgtctcctt | tccctatgct  | ggactgagcg  | gcgatgaccc  | tgacctgggc | ccagctcacg  | 960  |
| tggtcactgt | gattgcccgg  | cagcgggggtg | accagctagt  | cccattctcc | accaagtctg  | 1020 |
| gggatacctt | actgctcctg  | caccacgggg  | acttctcagc  | agaggaggtg | tttcatagag  | 1080 |
| aactaaggag | caactccatg  | aagacctggg  | gcctgcgggc  | agctggctgg | atggccatgt  | 1140 |
| tcatgggcct | caaccttatg  | acacggatcc  | tctacacctt  | ggtggactgg | tttctgtttt  | 1200 |
| tccgagacct | ggtcaacatt  | ggcctgaaa   | cctttgcctt  | ctgtgtggcc | acctcgctga  | 1260 |
| ccctgctgac | cgtggcggt   | ggctggctct  | tctacggacc  | cctgtgggcc | ctcctcattg  | 1320 |
| ccggcctggc | ccttgtgccc  | atccttgttg  | ctcggacacg  | ggtgccagcc | aaaaagtgg   | 1380 |
| agtgaaaaga | ccctggcacc  | cgcccagacac | ctgcgtgagc  | cctaggatcc | aggtcctctc  | 1440 |
| tcacctctga | cccagctcca  | tgccagagca  | ggagccccgg  | tcaattttgg | actctgcaact | 1500 |
| ccctctcctc | ttcagggggc  | agacttggca  | gcatgtgcac  | caggttggtg | ttcaccagct  | 1560 |
| catgtcttcc | ccacatctct  | tcttgccagt  | aagcagcttt  | ggtgggcagc | agcagctcat  | 1620 |
| gaatggcaag | ctgacagctt  | ctcctgctgt  | tctcttcctc  | tcttggactg | agtgggtacg  | 1680 |
| gcccgccact | cagcccattg  | gcagctgaca  | acgcagacac  | gctctacgga | ggcctgctga  | 1740 |
| taaagggctc | agccttgccg  | tgtgtgctt   | ctcatcactg  | cacacaagtg | ccatgctttg  | 1800 |
| ccaccaccac | caagcacatc  | tgtgatcctg  | aagggcgggc  | gtagtgcatt | actgctgagt  | 1860 |
| cctgggtcac | cagcagacac  | actgggcatg  | gacccctcaa  | agcaggcaca | cccaaacac   | 1920 |
| aagtctgtgg | ctagaacctg  | atgtggtgtt  | taaaagagaa  | gaaacactga | agatgcctg   | 1980 |
| aggagaaaag | ctggacatat  | actgggcttc  | acacttatct  | tatggcttgg | cagaatcttt  | 2040 |
| gtgtgtgtg  | ggatctctga  | aggccctatt  | taagtttttc  | tctgttactt | tgctgcttca  | 2100 |
| tgtgtacttt | ctacccccaa  | gaggaaagttt | tctgaaataa  | gatttaaaaa | caaaacaaaa  | 2160 |
| aaaacactta | atatttcaga  | ctgttacagg  | aaacaccctt  | tagtctgtca | gttgaattca  | 2220 |
| gagcactgaa | aggtgttaaa  | ttggggatg   | tggtttgatt  | gataaaaagt | tacctctcag  | 2280 |
| tattttgtgt | cactgagaag  | ctttacaatg  | gatgcttttg  | aaacaagtat | cagcaaaaag  | 2340 |
| atttgttttc | actctgggag  | gagaggggtg  | agaaagcact  | tgctttcatc | ctctggcatc  | 2400 |
| ggaaactccc | ctatgcactt  | gaagatggtt  | taaaagatta  | aagaaacgat | taagagaaaa  | 2460 |
| ggttggaagc | tttatactaa  | atgggctcct  | tcattggtgac | gccccgtcaa | ccacaatcaa  | 2520 |
| gaactgaggc | ctgaggctgg  | ttgtacaatg  | cccacgcctg  | cctggctgct | ttcacctggg  | 2580 |
| agtgttttcg | atgtgggcac  | ctgggcttcc  | tagggctgct  | tatgagtgg  | tctttcacgt  | 2640 |
| gttgtgtcca | tagcttttagt | cttcctaaat  | aagatccacc  | cacacctaag | tcacagaatt  | 2700 |
| tctaagttcc | ccaactactc  | tcacaccctt  | ttaaagataa  | agtatgttgt | aaccaaaaaa  | 2760 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaa        |             | 2803 |

<210> 144  
 <211> 961  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| <400> 144  |            |            |            |             |             |     |
| tgcacccacg | cgtccggtat | tttctaaaac | aataaattta | tagtggttaat | attcataggg  | 60  |
| tcaatcaaaa | tgaagcttct | cctttgggcc | tgcatgtgat | gtgttgcttt  | tgcaaggaag  | 120 |
| agacggttcc | ccttcatttg | tgaggatgac | aatgacgatg | gtcacccact  | tcattccatct | 180 |
| ctgaatatcc | cttatggcat | acggaattta | ccacctctc  | tttattatcg  | cccagtgaat  | 240 |
| acagtcccca | gttaccctgg | gaatacttac | actgacacag | ggttaccttc  | gtatccctgg  | 300 |
| attctaactt | ctcctggatt | ccctatgtgc | tatcacatcc | gtggttttcc  | cttagctact  | 360 |
| cagttgaatg | ttcctcctct | ccctcctagg | ggtttcccg  | ttgtccctcc  | ttcaagggtt  | 420 |
| ttttcagcag | ctgcagcacc | cgctgcccc  | cctattgcag | ctgagcctgc  | tgagctgca   | 480 |
| cctcttacag | ccacacctgt | agcagctgag | cctgctgcag | gggcccctgt  | tgagctgag   | 540 |
| cctgctgcag | aggcacctgt | tggagctgag | cctgctgcag | aggcacctgt  | tgagctgag   | 600 |
| cctgctgcag | aggcacctgt | tggagtggag | ccagctgcag | aggaaccttc  | accagctgag  | 660 |
| cctgctacag | ccaagcctgc | tgccccagaa | cctcaccctt | ctccctctct  | tgaacaggca  | 720 |
| aatcagtgaa | attctctaga | agagtacat  | gggttcatt  | ctatactgat  | gcagaaataa  | 780 |
| gtgaaatcta | caaaagtttt | ctttcttttc | caaagactat | ttcattctgt  | tgtattcaga  | 840 |
| gtattcatct | cactacattg | atttgtttgt | ggtagttttt | ccttggactt  | aatttatatt  | 900 |
| gaaaaaacat | tgataattaa | ataaataaaa | tagataattt | agaccaaaaa  | aaaaaaaaaa  | 960 |
| a          |            |            |            |             |             | 961 |

<210> 145  
 <211> 2207  
 <212> DNA  
 <213> Homo sapiens

<400> 145  
 ccacgcgtcc ggaaaaaggg aaaagatgcc gtgtaaaatc tcgttctgtg tctgaattgc 60  
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 catttgaggt tatgttctat aagttaacgt tgatcttgtg tgagctttcg gtagctggag 180  
 taacacaggc ggccctcacag cgacctctcc agcgccctcc aaggcacatc tgcagccagc 240  
 gtagctcctc ctggggagatg cctcctcaag gccctgctcc agaccacgtg gggagggcct 300  
 gacagccaat tcccaggctg tccccaccct tggagagtga ccctaaacgc tagacagatg 360  
 gggaatggga aagaaaaagaa agctgcagac ctcaagttaa aattccctca aaaacgtttt 420  
 tatttatctg ctttttctga aaggataaag gctttttgaa aattattttc taacaaataa 480  
 catgaacact tctagaaacc ctagaaaaac aaaaagtatt caaaatagaa agaaaaatta 540  
 cccattactc tttaagccag cattatccat tgcggtgctt ttggagttgg gtgaggccgt 600  
 agcctctgcc aagtcaaggga gcccggtggt ggctgtggca ttcctgcagg gttgtttttt 660  
 tttctttgag atggagtctc actcttgtca cccagctgg aatgtgggtg tgtaaacagc 720  
 tcactgcagc cttgaccctg aggtcgaagc gatccttctg ccttggcctc ctgagtagct 780  
 gggatcccag gcgagaagtc ccacaccctg tccatgttcc tgcaggctct gatatgcgag 840  
 gacgtgtgt cttccctgcc acattttctt cttctttctt gagacagacc cttgctccat 900  
 caccagggcc agagtgtggt ggtgcgaca cggctcactg cagcctcgac cctcaggctc 960  
 aagcgatcct cagcctcgg acccccaaag tgctgggac acaggcgaga gtcaccatgc 1020  
 tggcctgaat cttcagggtta ttttacgggt gaagtgtcac ttacttaacc atccctgttt 1080  
 caagagtgt ggtggtcacc ctgtctctgc cgtgcacctg gcctggaccc tcggctgga 1140  
 gagggagggg tgggctgggc tggaggaacc tgaagccctc gtgatgtcac aagcccatct 1200  
 ggctgggcat cccctgctgt gtccctgagct gcacatgcc cagggtggcc ccacagcaga 1260  
 ggagagccac tggaggggtg agggcttcca cgggacgggc ttcaggggga gaaggaaggg 1320  
 cccaggcccc caggagactc aggagaccag agcctggggt caggggctca gccaggggct 1380  
 cagccagggc tggatgtccg gagccagccc cgcagccctg tgttctttgt tcttcgact 1440  
 cccaccgtcc gtgtgaacag ctccagcccc acctgcgctt ccctgtgctg ggctccatca 1500  
 gggagcccag aagacgtgtg tgcttctgaa attgggtccc tacatgcctt tgcccagt 1560  
 caccctgtct cttccattta ctatcgagat ttaaattgct gtttctctcc cagaggttga 1620  
 cggatatatt cagacgttac gacacggatc aggaaggctg gattcagggt tcgtacgaac 1680  
 agtacctgtc catggtcttc agtatcgat gaccctggcc tctcgtgaag agcagcacia 1740  
 catggaaga gccaaaatgt cacagttcct atctgtgagg gaatggagca cagggtgcagt 1800  
 tagatgctgt tcttcttcta gatattgtca cgtggggacc cagctgtaca tatgtggata 1860  
 agctgattaa tgggttttgca actgtaatag tagctgtatc gttctaatagc agacattgga 1920  
 tttggtgact gtctcattgt gccatgaggt aaatgtaatg tttcaggat tctgcttgca 1980  
 aaaaaatcta tcatgtgctt ttctagatgt ctctggttct atagtcaaaa tgctttttta 2040  
 gccaatagga attttaaaat aacatggaac ttacacaaaa ggcttttcat gtgccttact 2100  
 tttttaaaaa ggagtttatt gtattcattg gaatatgtga cgtaagcaat aaagggaatg 2160  
 ttagacgtgt aaaaaaaaaa aaaaagggcg gccgctctag aggatcc 2207

<210> 146  
 <211> 2070  
 <212> DNA  
 <213> Homo sapiens

<400> 146  
 ttttggtttt tttttttttt ttttttttcc catctttgaa gtcctttatt cccagcagtt 60  
 cacatcagtt actcattgag ctgggggttcg tcatattaac caagaatca ttcattcttc 120  
 ttttgatatt gtaatcttgt cctcatctcc acaactgagt tggggcctga ggggtttaag 180  
 agttctcact ccatcacagg aggcaagggg tacccttgtg aaccagactt caactcctgg 240  
 aagtcttgtt cagttcatag gcaaatatct ttgcaagttt agtatgagac agcccaacgg 300  
 ttaaataaat aagacacagt gccatggttc taggcatttg gagagggaaa aggcacatta 360

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| cacagattcc  | cctggagaaa  | atacaggcca  | ttctcatctt  | ctcaacatgc | atthtcccac  | 420  |
| tcttcagtga  | cttttaaatct | tatcccctgg  | tctatgagaa  | accataaccc | acgtgctact  | 480  |
| gaatacattt  | ttattttccc  | ttcatgacat  | agacttgggtt | ccaagtatat | tttattttcc  | 540  |
| tcccttatgc  | ctacaagaca  | tccaattttg  | ttcagggtccc | ttttaatggc | acttaataaa  | 600  |
| tatacattct  | gagacctggc  | agaacaggct  | gtcccctttc  | acactgcctt | taaagcgcct  | 660  |
| gtttgaacta  | gctagtgcag  | agctcagggt  | gggcacgtcc  | tagcttacag | ctcwtggcca  | 720  |
| tctctggcac  | caggtctatc  | tgtccaatac  | tttgtgtcta  | gggtagaggt | ccctaaccct  | 780  |
| ggctgcacat  | tggaaagcacc | tgggaagctt  | tctgaattcc  | tgaggcccga | gccacaccct  | 840  |
| aaaccaattt  | catcagaatc  | tctgggtggg  | acggagcctg  | gattctgcca | gttgaaacct  | 900  |
| gccatggtaa  | cttcagtgag  | cagctacact  | gagaatcct   | gagctacaat | tctagcacac  | 960  |
| agtaggcctt  | cggtaggtat  | ctgtggaacc  | cacgagtggg  | tttcctatth | cattatctgt  | 1020 |
| tcccctatgc  | tctctattht  | tatcagaaat  | ctgagcagga  | aagagcagag | agaatgagtc  | 1080 |
| aagagcatcc  | tctcaagtga  | attcgtctgt  | gagaaaggaa  | ccgtagggtt | tgcattttct  | 1140 |
| ttgtgtcatg  | cagttctcat  | gctttaacag  | gccagaggga  | ggcaagttat | agactgacac  | 1200 |
| agacatgtat  | atattttctta | aaagcccttc  | aaaaaccaga  | gctcactgct | taggcactat  | 1260 |
| ggttataaca  | cagacatgtt  | cttgggaagca | tatctaaact  | acctcctgtt | tgacacacat  | 1320 |
| tctaacttgg  | gttggttaca  | aactttgtca  | gttggttaaga | tcacacttgg | tcacattttc  | 1380 |
| ccatttctgt  | gaatcttgca  | acttatcttt  | gcccagagca  | acagcctaga | catgaccacc  | 1440 |
| ccaagcaggg  | actgcactgc  | acccaacatt  | gccccagcag  | gtcagtcctc | cttgaacagg  | 1500 |
| aactgttttt  | gaggggtccc  | aattttccagg | ttctagaatg  | gggtgggtca | cttaccaagt  | 1560 |
| taaagaggct  | ggctacatag  | aatgcagtat  | tgagaagccc  | cccaaggtag | atcctgggtt  | 1620 |
| acaggaaaaga | aagctatact  | gatgaacaag  | gtttgtctgcc | acaggcatgg | gcgtggggga  | 1680 |
| gggcagcatg  | ccggggggcca | ccccgagatc  | actgctgtca  | tttacatttg | tatcacactt  | 1740 |
| cacagtttac  | agggagctct  | gcatgcttag  | ccccatgtca  | ttctcagcac | aacctgtgta  | 1800 |
| gtgaggtctt  | tctggatggg  | aacactgaag  | ttgtgtccta  | catctaaggt | cccacagcca  | 1860 |
| attgcatcac  | atccacggct  | gcctccagga  | cctcaggggc  | cacctgaaac | caactgggggt | 1920 |
| tccccttggc  | tccccttcta  | accagaaaac  | ggaaagcaag  | ccattcccta | acctccac    | 1980 |
| ccaccaggcc  | ttatcacccg  | cttcccagag  | tttcctctat  | gatttgcata | cccctttggt  | 2040 |
| ccctagtcct  | gagaacacag  | cagagctttc  |             |            |             | 2070 |

<210> 147  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 147  |            |            |             |            |             |     |
| ggctatttag | gtgccctata | gggaaagctg | gtacgcctgc  | aggtmccggt | ccggaattcc  | 60  |
| cgggtcgncc | cacgcgtccg | gtcagagaga | aagaactgac  | tgaaacgttt | gagatgaaga  | 120 |
| aagttctcct | cctgatcaca | gccatcttgg | cagtggctgt  | tggtttccca | gtcttcaag   | 180 |
| accaggaacg | agaaaaaaga | agtatcagtg | acagcagatga | attagcttca | gggttttttg  | 240 |
| tgttccctta | cccatatcca | tttcgcccac | ttccaccaat  | tccatttcca | agattttccat | 300 |
| ggtttagacg | taatttttct | attccaatac | ctgaatctgc  | ccctacaact | ccccttcccta | 360 |
| gcgaaaagta | aacaagaagg | aaaagtcacg | ataaacctgg  | tcacctgaaa | ttgaaattga  | 420 |
| gccacttctt | tgaagaatca | aaattcctgt | taataaaaaga | aaaacaaatg | taattgaaat  | 480 |
| agcacacagc | attctctagt | caatatcttt | agtgatcttc  | tttaataaac | atgaaagcaa  | 540 |
| aaaaaaaaaa | aaaaaagggs | ggccgc     |             |            |             | 566 |

<210> 148  
 <211> 1242  
 <212> DNA  
 <213> Homo sapiens

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<400> 148
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gtggggcttg ggctagggct ggggggaggg ggaaggcctg gggcaggagc ctctgagctc      180
tttccttctg tgaccacgga cctgtcaagt ttccaaacag aaagggtgtg ctcacttgtg      240
tggattttgt cacttggtgca tgtatgtatg ggtttctggg gcattgggtcc tgggtgctctc      300
tccacatcct gcatcccgtc ccctctgtct catggcccag gcagtgtga ggcggagatg      360
ctgcacatgt acagccagaa ggacccgctc atcctctgtg tgcgcctggc cgtgctgctc      420
gcggtgacct tactgtgcc agtcgtgctg ttccctatcc gccgggccct gcagcagctg      480
cttttcccag gcaaggcctt cagctggcca cgacatgtgg ccatagctct gatcctgctt      540
gttttggtca atgtccttgt catctgtgtg ccaaccatcc gggatatctt tggagttatc      600
gggtccacct cagccccag cctcatcttc atcctcccca gcattctcta cctccgcatt      660
gtaccctctg aggtggagcc ttctttatcc tggcccaaga tccaggccct gtgctttgga      720
gtcctgggag tcctcttcac ggccgtcagt ctaggcttta tggttgcca ctgggccaca      780
ggccagagcc gcatgtctgg aactgatca ggccctgctg gcccaggtcc ctgtgcgcat      840
gcacatggag gggtcagggc cgctccctag ggtccctcct gcccaacatg tggaggtggc      900
tggttcccat gaacgtggtt gtcagaggcg ggggacaagc agaggcttgc agactggccc      960
acttccctcc tcccgaagg atgccaagct tggatcatgg ccctaataccc aaccccaacc     1020
ccatgggagg aggaggagga ggaagaagag gaggaggagg aggaggagga ggcggaggag     1080
gaggaggcca ggtcctggtg gagcctttgc ccagcccagt cctctctgcc tcctcctggc     1140
tgaagctgtt tgtcaggatt accctcgggc taaagagaa aaataaagat gttgagctac     1200
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa                        1242

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<210> 149
<211> 712
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (26)..(26)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (28)..(28)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (77)..(77)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (117)..(117)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (124)..(124)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (696)..(696)
<223> n equals a,t,g, or c

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<400> 149  
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cttttttaggt gccactntag aaggtacccc tgaagggtacc ggtccggaat tcccggtagg 120  
accnacgcgt ccgaggaggt cytttaggaa gactctcaaa ggcaaatccc tgatcccccg 180  
ccccaccctt agccctgccc tctcaccaga gcaaaattca ctggggactt tttccaccac 240  
acatggaaat ctgtccactc ggaatacctc tgttttccat ttcaaattgt agggggaggg 300  
gatggaacac ttccagtgat ggtaagagat ctgttatgaa acgaaacacc ccccggtgta 360  
ataacttggg ctgaaatctg tttttatgag ccggggcccc tgtgcctcta gtatacttgt 420  
attgactctc atagttaccc ttttagtttt actgtgttct gtgaaaattt gtaattgggt 480  
gagaatcact gtgggcgtcc attcttattc aactaaatct ccacagggtt ttgagctgg 540  
tgtggattag ttttaactct gtattcaacc attagtgcta ccaccttctc acattacaat 600  
acaattactg gaagcaagta ctgcatttcc tatgacacaa aaaaggaaaa ataaaaaatt 660  
gctaattgcta aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aagggcggcc gc 712

<210> 150  
<211> 1200  
<212> DNA  
<213> Homo sapiens

<400> 150  
ccacgcgtcc ggaattttgt tgttctctgt ctctttgatt tccctggaaga cgacaccatg 60  
acaattttcaa agaaaataga acaaaatgaa ggaaaaagag gctctgtctt agcacattcc 120  
tgtgaccagc ctgctgtctg tgggtgtgcc tccctggccc gcttggcacatgttcgttt 180  
ttgtggttgt tgccctggaca ggcaactctg cagggtgtgt tctctacgca tccctttgcc 240  
tgccctgctg tgccaggggt tgtcaagggc ttttgggtca gagtgggcac ccttttctcc 300  
aaggctccct gcaaagctgg cctgtccctg gtggggctga cagcttccct ctacccctgc 360  
caggctgccc aagggccaga ggtgacctat gaggcagaag agggctcctt gtggacgttg 420  
ctactcacta gcttggtatg gcacctgctg gagccagatg ctgagtacct ccaactggctg 480  
ctaaccaaca tcccgggtaa ccgggtggct gaaggacagg tgacgtgtcc ctacctcccc 540  
cccttccctg cccgaggtct cggcatccac cgtcttgctt tccctgtctt caagcaggac 600  
cagccgattg acttctctga ggacgcacgc cctcaccct gctatcagct ggcccagcgg 660  
accttccgca cttttgattt ctacaagaaa caccaagaaa ccatgactcc agccggcttg 720  
tcttcttctc agtgccgctg ggatgactcc gtcacctaca tcttccacca gcttctggac 780  
atgcccggag cgggttttga gttcgtgcgg ccgcccctta ccacccaag cagaagcgct 840  
tccccaccg gcagccctg cgtacctg accggtacag ggacagtcag gagccacct 900  
atggcatcta ctaaggagcc agagtgtgcg catttcagag catgggattg atcggcagca 960  
agagtaaaga cacagctcca gagggccaca ctgtggggcttggggccctgc cttaggcagc 1020  
ccccctcttt ggccccctcc cgtcaggccc agggcttgga gtgaaagtga ctctcagggtg 1080  
gtgggggtgg gaatgtgaat aaacatgatt tcttgccggg aaaaaaaaaa aaaaaaaaaa 1140  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200

<210> 151  
<211> 1352  
<212> DNA  
<213> Homo sapiens

<400> 151  
ccacgcgtcc gacagcagag atctgtggag taggattgtg ggctggcagt gggtttatcc 60  
cacagacctt agacagctac ttaatttgta tagacccttc ccagcctggg cctctgggtt 120  
ttccttctgg gtggagatca tcttctgtag gaaatgga tgcttcaagc caagaagctt 180  
ttacttttac taggtctttt tgtgtcctgc tgttcaaata ttaggaagac tgaacctgt 240  
ttcggctctt acagtattac gtttcgtgat cccaaaaaaa agtgtttgtg taacctcaag 300  
tcatgctgaa agtgaaatac agcttaaagt gggattctgc tggacctgac tcaacttttc 360  
acctcaccgc ttggctccgt gcaggcagta tttgagtatg tggttcccc tcaagtctgt 420  
aggagttgta ttgtcaataa agtccaaggc cagagtgtt gctttctagt aagtagagag 480  
aatttttgaa attcaacgac aaacatttat taagccctta ttgtgtacag ggctcaaagc 540



|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| taagtgcctt | gggtgattca | gggtgattag  | ggaggatt   | ccatcttcaa | gaagcctccc  | 600  |
| atctaggaag | aaaggtcgat | aagcatagtt  | ttggacacat | gggagagcat | ggctttctct  | 660  |
| gggcccagta | attacttttg | tatccagatc  | attagagaac | ggaatgcctt | ctattgaact  | 720  |
| atgtaacagt | cacaggttta | gatcttctca  | agttattatt | gcctttaatc | ttcatatgat  | 780  |
| tcctatcctg | cagttaggaa | atggaaaccc  | taggatatag | tgactgtgag | ctcagaaaaat | 840  |
| taggttggga | gataagccag | tagattgagg  | tggtagattc | ttcaagatct | tgaagggggg  | 900  |
| aaggtggggg | gggggacggg | ggagctgtcc  | ccagctatat | ttgcccttgg | cagatgggat  | 960  |
| ggattctggg | agaaaagctc | aagaaaattag | gcctgtacga | cttattttca | tgaatctagc  | 1020 |
| tgctaagctg | gaataagtga | agttaaaagt  | agtgatgggc | caggcacggg | ggctcacacc  | 1080 |
| tgtaatccca | gttcttttga | aggctgaggc  | aggcggatca | tgaggtcagg | agttccagac  | 1140 |
| cagcctgggc | agcatgggtg | aaccccgctc  | ctactaaaaa | tataaaaatt | agccaggc    | 1200 |
| agtggcacgt | gcctgtaatc | ccagctactc  | aggaggctga | ggcaggagaa | tcccttgaac  | 1260 |
| ctgggtggca | ggggttgag  | tgagctgaga  | tcgtgccact | gcactccagc | ctgggtgaca  | 1320 |
| gaatgagact | ccgtctttaa | aaaaaaaaaa  | aa         |            |             | 1352 |

<210> 152  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 152   |            |            |             |            |            |     |
| ggcacgagca  | ttcacagggt | acaaatgctg | ctgccaaactg | tcctggccaa | atgactctgc | 60  |
| atcacaaaacc | tttccttgca | tgtggagggg | atggatttac  | tcagtccaac | tttgatggct | 120 |
| gcatcacttc  | tgcctatgt  | gttctggaag | ctttaaagaa  | ttatatttag | tgcctata   | 180 |
| cttattctct  | acatgtgtat | tgggttttta | ttttcacaa   | tttctgttat | tgattatttt | 240 |
| gttttctatt  | ttgctaagaa | aaattactgg | aaaattgttc  | ttcacttatt | atcatttttc | 300 |
| atgtggagta  | taaaatcaat | tttgtaattt | tgatagttag  | aacccatgct | agaatggaaa | 360 |
| ttcctcacac  | cttgcacctt | cttactttt  | ctgaattgct  | atgactactc | cttggtggag | 420 |
| gaaaagtggg  | acttaaaaaa | taacaaacga | ctctctcaaa  | aaaattacat | taaatcacaa | 480 |
| taacagtttg  | tatgccaaaa | acttgattat | ccttatgaaa  | atttcaattc | tgaataaaga | 540 |
| ataatcacat  | tatcaaagcc | caaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | 600 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  |            |            | 639 |

<210> 153  
 <211> 1434  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| <400> 153   |             |            |            |            |            |      |
| cattaaactc  | tttttatcgg  | gaatagtatg | atattttcaa | tgctactcca | ttcatgttga | 60   |
| tttgagagctg | acagttattt  | tgtgtaagca | gagatttaat | tttatattga | aagtcagtgc | 120  |
| aaaattatga  | ataggatata  | ctaataaata | caaagtaata | acaaaagtca | aagcagtgtt | 180  |
| ctaaataaaa  | attctggggt  | ccttaaaaaa | tattttaaat | ttatcttgaa | atagttttct | 240  |
| tagattaatc  | tcaggatatg  | agaaagtcaa | ttaagtgtga | gtaaagttag | tacattaaa  | 300  |
| caaattgtct  | attaaatgca  | mgagtggtaa | tatacagaat | ttatcaggca | ttaccaagtc | 360  |
| taggcacata  | taggaaatgc  | agcactcaga | atggtttcaa | tgtagtagtt | gatgcttgta | 420  |
| aggtagggga  | gcttattcag  | acatagtaga | tagtttctct | aatgctgtst | caattgctgg | 480  |
| cctttggcta  | cctgtacttc  | cscattatgg | cagcccatte | agtcttgagt | tttcttctct | 540  |
| ggacacctta  | tgctctgaaa  | tcatgagcga | ggctgattca | attggtgatt | tgggtagaaa | 600  |
| gcagtatggt  | ttgctgacat  | taagatgtag | gttatagata | ggtttagcct | ttaagtgtat | 660  |
| gtttttatac  | tttaaaataa  | gaaatataac | cttttaagct | attccactc  | ctccccagc  | 720  |
| ctatctcaaa  | ctgggtggaat | atatggagag | atcttgaaag | aagtaaaata | aaccttcact | 780  |
| gtccactcc   | aggtgaatcc  | gccactccc  | actgacctag | tagaatttgt | aatttaatac | 840  |
| ttaccttcta  | tttctgaaat  | cagttgtgaa | ctgttgccct | atgttcagar | gtttaagaac | 900  |
| ctcmgtgaat  | tcatttttta  | aaatctgcta | ttctgagaag | cattgaatga | attcttaaca | 960  |
| agaagactca  | tctgtagctg  | tttgctgact | cctatagacc | ccataagggt | tctgtgctta | 1020 |
| gcattaacaa  | aataagggtt  | ataggtaaag | ccaatgtatt | aatttttttt | tgcatggagg | 1080 |

|             |             |             |              |            |            |      |
|-------------|-------------|-------------|--------------|------------|------------|------|
| gcttttaaaat | ttgtgctcctt | tttcatatatt | tattcatatatt | aatttatgg  | tttgtaactg | 1140 |
| cttttttaggg | agataaattat | atgtttataaa | ttagttttgg   | ggggaataat | tgtgcaaaga | 1200 |
| ggataaattta | atttacgtgc  | ttctgtttatt | cagaataaaag  | agagaagact | acgctgcata | 1260 |
| ttcaagagtt  | gtaccttaac  | attggtgaaa  | cattttttct   | aagattttca | aaaggaatat | 1320 |
| gtgtaaattg  | agaaatcata  | accactgtcc  | taacttggtg   | aacaaactgt | tcttaataaa | 1380 |
| agtatttaaat | gatttttaaaa | aaaaaaaaaa  | aaaaaaaaaa   | aaaaaaaaaa | aaaa       | 1434 |

<210> 154  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 154  |            |            |             |            |            |     |
| ggcacgagtt | gcggtgaacc | agaattataa | cagtgaagctc | actgactgt  | tttaggatgt | 60  |
| acagcctagt | gttaacattc | ttggtatctt | tttgtgcctt  | atctaaaaca | tttctcgatc | 120 |
| actggtttca | gatgttcatt | tattatattc | ttttcaaaga  | ttcagagatt | ggcttttgtc | 180 |
| atccactatt | gtatgttttg | tttcattgac | ctctagtgat  | accttgatct | ttcccacttt | 240 |
| ctgttttcgg | attggagaag | atgtaccttt | tttgtcaact  | cttactttta | tcagatgatc | 300 |
| aactcacgta | tttggatcct | tatttgtttt | ctcaaataaa  | tattttaagg | taaaaaaaaa | 360 |
| aaaaaaaaaa |            |            |             |            |            | 370 |

<210> 155  
 <211> 2067  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 155   |             |             |             |             |            |      |
| aattcggcac  | gagcttttaa  | taggaagtaa  | tgtctcacc   | aagagaaatg  | aagagcaggg | 60   |
| aagagtgaact | ttctccttct  | ccctccctct  | cccctggata  | tggaaactca  | ccattatgca | 120  |
| ctgcttcttt  | ttgtggttgc  | tgcttttttg  | acttcttgga  | attagtgggt  | tccttggtta | 180  |
| tatttcagtg  | gctggtarca  | gtatatatgt  | catgtggaag  | gtggaraagg  | aaatgaatac | 240  |
| ttaggtctca  | aagaccact   | ctccatggct  | gcttttagcag | atggctgttt  | ctttctctcc | 300  |
| cttgacaggt  | ggggatagga  | ttgtcaccat  | ctgtggcaca  | tccactgagg  | gcatgactca | 360  |
| cacccaagca  | gttaacctac  | tgaaaaatgc  | atctgctcc   | attgaaatgc  | agtggttgc  | 420  |
| tggaggagac  | gtgagtgtgg  | tcacaggtca  | tcagcaggag  | cctgcaagtt  | ccagtctttc | 480  |
| tttcaactgg  | ctgacgtcaa  | gcagtatatt  | tcaggatgat  | ttaggacctc  | ctcaatgtaa | 540  |
| gtctattaca  | ctagagcgag  | gaccagatgg  | cttaggcttc  | agtatagttg  | ggaggatatg | 600  |
| ggcagccctc  | atgggagact  | taccatttta  | tgttaaaaca  | gtgttttgca  | aaggggagca | 660  |
| gcctctggaa  | gacggacgtc  | ttgaaaaggg  | gggcgattcc  | agatcattgc  | tgtcaatggg | 720  |
| cagagtctag  | awggagtcac  | ccatgaagaa  | gctkttgcc   | tccttaaacg  | gacaaaagg  | 780  |
| cactgtcact  | ttgatggttc  | tctcttgaat  | tggctgccag  | aattgaacca  | acccaacccc | 840  |
| tagctcacct  | cctactgtaa  | agagaatgca  | ctggtcctga  | caatttttat  | gctgtgttca | 900  |
| gccgggtctt  | caaaactgta  | gggggggaaat | aacacttaag  | tttctttttc  | tcacttagaa | 960  |
| atgcttttct  | tactgacaac  | ctaacatcat  | ttttcttttc  | ttcttgcat   | ttgtgaactt | 1020 |
| aaagagaagg  | aataatttgtg | taggtgaatc  | tcgtttttat  | ttgtggagat  | atctaagtgt | 1080 |
| ttgtagtcac  | atgggcaaga  | attattacat  | gctaagctgg  | ttagtataaa  | gaaagataat | 1140 |
| tctaaagcta  | accaaagaaa  | atggcttcag  | taaattagga  | tgaaaaatga  | aaatataaaa | 1200 |
| taaaagaaga  | aatctcgggg  | agtttaaaaa  | aaatgcctca  | atttggcaat  | ctacctcctc | 1260 |
| tccccacccc  | aaactaaaaa  | aaaaaa      | ggttttctaa  | tgaaaaatctt | taaaaatact | 1320 |
| gtcagtattt  | taaaattttc  | aacagtatta  | taaaaacatt  | gcatctcccc  | acctctaata | 1380 |
| tgcataatata | tttttctctg  | taaaattggg  | ttctacaatt  | gagtaaattg  | caaaacatg  | 1440 |
| aagcaatgtc  | cctaaatttt  | ataaagaaat  | tatatttaaat | gcacatttca  | attttcatct | 1500 |
| ttattttttga | ccttttgtaa  | aatattttca  | tgtttgctata | agtaaattgat | gatgccaccc | 1560 |
| cakgttgact  | atggkttttc  | tagaaagcaa  | ctatgctgct  | aaccatagag  | gaacatagaa | 1620 |
| gggttccaga  | atcttttagtg | ctggttttta  | caaccgatgc  | aacatttaaaa | atgtgttagt | 1680 |
| gtgctgtgca  | attggttttc  | aattcatatt  | aatcttaatg  | acagagaaca  | atgtgttact | 1740 |
| aattattttt  | gttggtatgcc | attagtaaat  | tgatagaaaa  | attaagggga  | ttaacataac | 1800 |

|            |             |             |            |                        |      |
|------------|-------------|-------------|------------|------------------------|------|
| ttcatttcat | tgccttatat  | taacatctta  | taatacaata | gtttaagactaagggaaaca   | 1860 |
| gatggagctg | tttattgaga  | caactgggtga | ggaattatca | tgtgttcatt cccatttttag | 1920 |
| agcgtgaaac | tcctacatta  | gaatatataa  | agtcacttta | aatatctata tttgtaacag  | 1980 |
| aagtagtgta | cagatatttt  | attacagcat  | ttttgtgtaa | atgcagaatt aaagtgaata  | 2040 |
| aataagaatt | ttcagtgggtg | cacaaat     |            |                        | 2067 |

<210> 156  
 <211> 867  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |                        |     |
|-------------|-------------|------------|------------|------------------------|-----|
| <400> 156   |             |            |            |                        |     |
| ggcacgagca  | ggtactgggt  | gactgcctgg | ctgaggaaaa | gttaactaga cacttgggga  | 60  |
| aaggagatcc  | aagggagtaa  | gaggcaaaat | gcctttgcat | gcttttcttcctatctcttt   | 120 |
| ttctttctct  | ccttctcact  | ctctcccttc | cttcccttct | tcctttctct ttttttttt   | 180 |
| tttctctttt  | ccccacctc   | tctgcctgcc | tccttccctc | cctccccctcc cctcccttcc | 240 |
| ccctccctcc  | ctccctccct  | tccttccctc | cttcccttct | tccttccctc cttccctccc  | 300 |
| tcctctctcc  | ctcttccct   | gccttctttc | cttcgttctg | ccaacttgcc agaaggagcc  | 360 |
| caagaaaaag  | cacccagatg  | cttcagtcaa | cttcttagaa | ttcttctttt ttttatgttc  | 420 |
| agaaaagatg  | gaaattcatt  | tctgctaaag | agaaagaaaa | aattggaaga cagggtgaag  | 480 |
| gtgaacaggc  | ccattataag  | aaagaaacaa | aaatctatat | tctgctaca aggaagcgag   | 540 |
| agagagaaaag | agagagaaga  | aagaagttcc | aggattctaa | tgtaccaaaag ggatctcctt | 600 |
| tttcttggtt  | tggtctgaaa  | atttcaccaa | aagagcacag | gagaacatct tggctaattc  | 660 |
| attggcgatg  | atgtaagaaa  | actgagagaa | atgaaagaaa | tgaagaatta ctgctgcaga  | 720 |
| taatatacag  | ccttgaggaa  | agaaaggctt | ttaagattat | agatataaaag gctattgctg | 780 |
| tattctggga  | taaaagaaaag | tctgatgtca | gggaaagggg | aagttggaaa aactggaaaa  | 840 |
| agaaaaaaga  | aaaaaaaaaa  | aaaaaaa    |            |                        | 867 |

<210> 157  
 <211> 1422  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |                        |      |
|-------------|------------|-------------|-------------|------------------------|------|
| <400> 157   |            |             |             |                        |      |
| gtctccgctc  | ctgtgcccg  | gaagatgggtg | ctagggtggtt | gcccgaatca cgccattttt  | 60   |
| taacatctct  | ttttgatcaa | acaagaaaaa  | gcatttggga  | aatgcaaaga ggactgagaa  | 120  |
| tactttggct  | taaattttgc | ccccagaatc  | ttgttggttg  | cctactgaag agatgaaacc  | 180  |
| atggcagaag  | tagaatcctt | atagaaacag  | gaccagaaac  | acctcccttc tccaacaaaa  | 240  |
| ggttcatttt  | ggtggctgtc | cgtttgacct  | gctgtgcttc  | agtttaattg gcttggaaaag | 300  |
| gggtcagcag  | ggtgaaaccg | aaccccagaa  | aacttgatga  | agaaatgtct tttgcccggt  | 360  |
| ttgattacgt  | gcatgcaaac | agcgatttgc  | aaagaccga   | tgatgatgat catgatctta  | 420  |
| ctggtgaatt  | acagacctga | tgaatttata  | gaatgtgaag  | acccagtgga tcatgttgga  | 480  |
| aatgcaactg  | catcccagga | acttggttat  | ggttgctca   | agttcggcgg tcaggcctac  | 540  |
| agcgacgtgg  | aacacacttc | agtccagtgc  | catgccttag  | atggaattga gtgtgccagt  | 600  |
| cctaggacct  | ttctacgaga | aaataaacct  | tgtataaaag  | ataccggaca ctacttcata  | 660  |
| accactttac  | tctactcctt | cttcctggga  | tgttttgggtg | tggatcgatt ctgtttgga   | 720  |
| cacactggca  | ctgcagtagg | gaagctggtg  | acgcttggag  | gacttgggat ttggtggtt   | 780  |
| gttgacctta  | ttttgcta   | tactggagg   | ctgatgccaa  | gtgatggcag caactgggtgc | 840  |
| actgtttact  | aaaaagagct | gccatcatgg  | cccaggagg   | cggtgaaaag ctccgtcttc  | 900  |
| tgaattcctc  | tctacaggct | caaaaactcct | ctttgatata  | agacctgatg ttattttcct  | 960  |
| tcttttgagg  | ggcatttggt | tggttaagaa  | ggcttctttg  | gactttggaa tttcaacca   | 1020 |
| gattttacct  | tgcagacgga | atgacaagca  | aaaagtgttg  | tggggaatca aatttgttcc  | 1080 |
| tttccctcatg | cacaaaacat | aaaggatagt  | ggcgagttaa  | caagctgtgg atgggtttcc  | 1140 |
| atagtcttcc  | tttctgtaca | ttgctatatc  | ttcagtcctt  | tggagcaagt ggacctaaca  | 1200 |
| agttgagcaa  | aatgaatatt | tggatcatg   | ttcctcttgt  | gaccctgagt cttcatgcaa  | 1260 |
| gggatctgta  | agctgaacaa | tgaaaatctt  | cagcagaaat  | agaaatggcc gtggattgta  | 1320 |
| atacacactg  | aaattctgac | tttctgaatt  | taaatgtaga  | ataaatttta ccaacttgga  | 1380 |

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg ag

1422

<210> 158  
<211> 1288  
<212> DNA  
<213> Homo sapiens

<400> 158  
cccccgggct gcaggaattc ggcacgagcc tgacctcccc agcctcatct ctcctcctc 60  
tgctctcgcc ctctgtgctc cagccaacgt ggcctgtcac tcgtccacct gccatactgt 120  
cctgactcca ggcctttgcc tgtgctatgg cctctgttgg gaccactctt gtctctcccc 180  
tgctgtgtct gctaattccc actcgtgtca gtgatccatg gctgcagaac acaccactcc 240  
atccatggaa aacaatcaca atcattgatt actatctctc cctgggcttc ctgggggtgga 300  
ctgggctcag ctgggtgggt cactttgggg cctcagcagt catgggcaga cagtggctgg 360  
ggctactgca aagacttccc tgcatctctg gcagttgatg ctggctgtca tctgagacac 420  
ctacccaggg cctctccctg gggcctgggc tcctgcttag cttggttggg aggctccaag 480  
accaacatcc caagaaagat gagacagaag ccagatcacc tttttggggc tggcttcaga 540  
agtcaccag catcacttct gctgcattta tttcttaaaa cacaaatatc aaacccccatc 600  
tcttgatggg agggggcctc atggtttgta aacatgttct aaactccact ctgcccggcc 660  
ttggctcaac gtgtctggta atgtgtgggc tgtgaggctc cccgaacgta gacctcagac 720  
tgcaacgctg gccgttacag ggtctggcac acggggccac gtcaggccca tggcacagt 780  
gatggttggt ctgtgactgt ttctggtggc ctctgctcca cactccaggc tgacgtgtg 840  
cccttccac tgggaccctc ggggtggcttc catgcacttg tgcctaaat cctgctccta 900  
gactaaactt catctcctgt gttctcattc tgcagcatgg ctgttaggga acctgaccat 960  
ctgcagcgcg tctcgttgcc aaggtataat gtcagtgcct cccttcagtg gctcccatgt 1020  
cacagaattg tcctgcagcc ctggcacatg tgtgccatgt gggagctggg gcaggtcctc 1080  
tttcacctcg tggctccgag ggagggggcc gtccttccc cagtctctac cctgacttgg 1140  
ccctcgtcct gcagccactc agagagcacg atggagctgg agcttagtt ttgaccaa 1200  
gggtgtcgcc ggcttttgtg tgtgtgtgtg tgtgacagag ccagaccctg tctttaaaaa 1260  
aaaaaaaaaa aaactcgagg gggggccc 1288

<210> 159  
<211> 1152  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (668)..(668)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (745)..(745)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1015)..(1015)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1088)..(1088)  
<223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (1110)..(1110)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1113)..(1113)  
 <223> n equals a,t,g, or c

<400> 159  
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 caagcactgc atctgcttag tgaaggatth attgttcgga agatacattt tccccttkag 180  
 cagagagtgg cgtatcctgg cagtcttcgg tgagccagtt gtaccaggat tatgaaatgc 240  
 agatgtttac tgtgtcattg ttgctgtcat tgctactgag gactactgac cagaatcatc 300  
 tgcaactytt agttggcaga gaggaccact atggcgggta gctcttttct ttcctgccat 360  
 tgtggggatg attccaggcc aaagatgatg garaagtatg gaaatcatct gaaagggttg 420  
 agcttggcac gtgaagccat tcatgacttt gtaaggcagt tttgctgag gccagttctg 480  
 ccctgggagg gacggagggt aatcctcctg agtacctgtg gttttcttac ttcctgctga 540  
 atttacctaa gtgcctgttg ttgcttgct gtggaggctt tctggatatt catttcaggt 600  
 gcagatgcct tcactttccc accraaaaaa ccccmaccaa acctaagacc ttactgcaac 660  
 taagtytncc aagtactttt taacccaatg ggatgaacag cctgtgggtct gctcagatca 720  
 ccctgagtgct gtgtgagaag gcmtnngctt tgccaggaaa tccagggaagg cagggccggg 780  
 ctgtgttgga agctggctta gctgggtggg cagccttatt tcaattaaaaa gggcattgac 840  
 tgggagcagc agtcctggag tttgttgcat ttcctattgc ctcaaaatg agaaaccagg 900  
 aaaatagcag attggagcct tcgagaaggc agtaaatggc tgtttttatt gacaaaagga 960  
 aaacatttta ctgccatctc actgatggca tctcactgac ttaaaatgaa ggcangttgt 1020  
 agtaaaaaaa aaagtctaca tttttccacc gccacgttct tatatcctgt ttgtcagcca 1080  
 ctgctcanaa gggcatgttg tcttgcggan tanaggcgct ctccttccct cgttttccct 1140  
 ataggttggg tg 1152

<210> 160  
 <211> 2199  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
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 gcctcccttc tggtcgcca cacttggttc attgtggtcg ctgccatcca ggacaatcgc 180  
 tacatactct gcaagacagc ctgtgtggct gccaccttct tcatccactt cttctacctc 240  
 agcgtcttct tctggatgct gacactgggg cctcatgctg ttctatcgcc tggttttcat 300  
 tctgcatgaa acaagcaggc cactcagaa agccattgcc ttctgtcttg gctatggctg 360  
 cccacttgcc atctcggta tcacgtggg agccaccag cccgggaag tctatacag 420  
 gaagaatgtc tgttggtca actgggagga caccaggcc ctgctggctt tcgccatccc 480  
 agcactgatc attgtggtgg tgaacataac catcactatt gtggatcatc ccaagatcct 540  
 gaggccttcc attggagaca agccatgcaa gcaggagaag agcagcctgt ttcagatcag 600  
 caagagcatt ggggtcctca caccactctt gggcctcact tgggttttg gtctcaccac 660  
 tgtgttccca gggaccaacc ttgtgttcca tatcatattt gccatcctca atgtcttcca 720  
 gggattatc attttactct ttggatgcct ctgggatctg aaggtacagg aagctttgct 780  
 gaataagttt tcattgtcga gatggtcttc acagcactca aagtcaacat ccctgggttc 840  
 atccacacct gtgttttcta tgagttctcc aatatcaagg agatttaaca atttgtttgg 900  
 taaaacagga acgtataatg tttccacccc agaagcaacc agctcatccc tggaaaactc 960  
 atccagtgtc tcttcgttgc tcaactaaga acaggataat ccaacctacg tgacctccc 1020  
 gggacagtgg ctgtgctttt aaaaagagat gcttgcaaa caatggggaa cgtgttctcg 1080  
 gggcagggtt ccgggagcag atgccaaaaa gactttttca tagagaagag gctttctttt 1140  
 gtaaaagacag aataaaaaa attgttatgt ttctgtttgt tccctcccc tcccccttgt 1200

|             |            |             |            |                     |            |      |
|-------------|------------|-------------|------------|---------------------|------------|------|
| gtgataccac  | atgtgtatag | tattttaagt  | aaactcaagc | cctcaaggcc          | caacttctct | 1260 |
| gtctatattg  | taatatagaa | tttgaagag   | acattttcac | tttttacaca          | ttgggcacaa | 1320 |
| agataagctt  | tgattaaagt | agtaagtaaa  | aggctaccta | ggaaatactt          | cagtgaattc | 1380 |
| taagaaggaa  | ggaaggaaga | aaggaaggaa  | agaagggagg | gaaacaggga          | gaaagggaaa | 1440 |
| aagaagaaaa  | agagaaagat | gaaaatagga  | acaaataaag | acaaacaaca          | ttaaagcca  | 1500 |
| tattgtaaga  | tttccatggt | aatgatctaa  | tataatcact | cagtgcacaa          | ttgagaattt | 1560 |
| ttttttaatg  | gctcaaaaat | ggaaactgaa  | agcaagtcac | ggggaatgaa          | tactttgggc | 1620 |
| agtatcttcc  | tcatgtcttc | ttagctaaga  | ggaggaaaaa | aaggctgaaa          | aaataggagg | 1680 |
| gaaattcctt  | catcagaag  | acttcaagt   | gataacaata | tttataagaa          | atgaatggaa | 1740 |
| ggaaatatga  | tcctcctgag | actaactttg  | tatgttaagg | tttgaactaa          | gtgaatgtat | 1800 |
| ctgcagagga  | agtattacaa | agatatgtca  | ttagatccca | agtgtctgatt         | aaatttttat | 1860 |
| agttttatcag | aaaagcctta | tatttttagtt | tgttccacat | tttgaaagcaaaaaatata |            | 1920 |
| atttgatata  | cccttcaatt | gccaaatttg  | atagtgtgca | ctgaagacag          | accctgtcat | 1980 |
| atattttaatg | gcttcaagca | ggtactttct  | tgtgcattat | agaatagatt          | ttaataatct | 2040 |
| tatagcattg  | tatattatta | ttgctgttgt  | cactgttatt | attattgtgg          | atactggccc | 2100 |
| ttggtgtgtt  | gcatagctcc | ctatgtattc  | tctgtttcca | tctttaagtt          | cccagaccaa | 2160 |
| tatacattaa  | gagttttgaa | aaaaaaaaaa  | aaaaaaaaaa |                     |            | 2199 |

<210> 161

<211> 1761

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1207)..(1207)

<223> n equals a,t,g, or c

<400> 161

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gctcgtgcat  | tcatacagga  | gatgttatga  | ttttscctgt  | actttcttgc  | ttcacaagat  | 60   |
| ttatggctgg  | tttgatcttt  | gtactccaca  | gttgttttag  | attcatcact  | tttgtttgtc  | 120  |
| ccacatcctc  | tgatccccctg | aggacctgcy  | cagtcctgct  | atgtgttggt  | tatcaggacc  | 180  |
| ttccaaatcc  | agttttccga  | tatttgcaga  | gtgtgaatga  | attgttgagc  | actttgtctc  | 240  |
| actctgactc  | accccagcag  | gttttacagt  | ttgtgccaat  | ggaggtactc  | cttaaggggg  | 300  |
| ccctgcttga  | ttttttgtgg  | gatttgaatg  | ctgccattgc  | taaaaggcat  | ttgcatttca  | 360  |
| ttattcaaag  | agagagagaa  | gaaattatca  | acagcctta   | gttacaaaac  | tgaacatatg  | 420  |
| ctttctgaga  | ttcaacttta  | tgatttctta  | taatttgccc  | agtatttgca  | tcctgttgct  | 480  |
| ctattaattt  | aaaaaccttt  | tattttgggg  | aaaggccaac  | atttgcacat  | ttcaaagtct  | 540  |
| cattaattct  | ggaaaaccat  | ccattctgat  | ctctagggta  | tatacaccca  | caggcataga  | 600  |
| gctcttccac  | gtgggtggaat | ctatgcaatg  | atagatatc   | acactctaaa  | tatgaggtgt  | 660  |
| gtgtatgtgt  | atgggtggcc  | acagccatgc  | ttacctatgc  | catttagttg  | gtcttactta  | 720  |
| atctgcttaa  | gattttgcac  | tgtgtacctt  | tggtcagatt  | agtttttttt  | ttccagccga  | 780  |
| tttctcttta  | gtggctaattg | ctgttagtga  | atttccaac   | taattttctc  | tcattgggta  | 840  |
| atgttggtta  | tgaattgaga  | gaggttaattg | aggaaaggaa  | atgagtaaat  | cactgttcag  | 900  |
| caacactgat  | ttccgttaac  | acatcagtta  | tgaatttcag  | ggaattcatc  | tcgccagatt  | 960  |
| cttgataaca  | tgccattcat  | tgcccttagg  | tgattgaccc  | tattttctta  | catggctcaa  | 1020 |
| ataaaaactag | tatgctgttg  | tatgaatctt  | ttactgacca  | caccatccaa  | ctataaaaaat | 1080 |
| ataacgggac  | agctttaaac  | caaagatcat  | gcttagaaca  | atgaaaaaatt | atttgttgta  | 1140 |
| tctaatacac  | gcctgtattg  | tgaagaagctt | catttagcaa  | tgatgtaata  | atttttaact  | 1200 |
| tccaggnaaa  | taatctgtga  | atggaaagt   | tttttaagat  | tttgagatag  | tgtttagtct  | 1260 |
| catgttgggg  | acacatgaat  | gtgatgaaca  | tagtgaatac  | taaagaaaac  | gcttcagact  | 1320 |
| ttcagatgat  | ggttcagaat  | ttaaaatttt  | taatcttttc  | taatttcttt  | ttttcagtgt  | 1380 |
| gaaaatagca  | ctttaccaaa  | agattagcca  | tgaaatgggt  | atttttgccag | ttacattttg  | 1440 |
| tttcttttgt  | atctgcaatg  | taatgagtta  | ttttattttc  | tctgtatttg  | cagtgtaatg  | 1500 |
| agttttttgt  | gcaaagtgt   | tttaagcaatt | tttcattatc  | ttgaagttcc  | acaaagtgga  | 1560 |
| gaatatttat  | attctcacat  | gcatttttagg | cactttttgat | atgtgaaaat  | agatgtattt  | 1620 |
| tctgatgcat  | ttgggttaata | aatattaatc  | tgaacatttt  | catgttcttt  | gctattttga  | 1680 |

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attccattat agattcatga ataaagtcac tactagagaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaactcgta g 1761
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<210> 162
<211> 1999
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (532)..(532)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1490)..(1490)
<223> n equals a,t,g, or c
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<400> 162
gcacctgtga aaaggaggaa cgtcatcccc catgatattg gggaccacaga tgatgaacca 60
tggctccgcg tcaatgcata tttaatccat gatactgctg attggaagga cctgaacctg 120
aagtttgtgc tgcaggttta tcgggactat tacctcacgg gtgatcaaaa cttcctgaag 180
gacatgtggc ctgtgtgtct agtaagggat gcacatgcag tggccagtgt gccaggggta 240
tggttgggtg ctgggaagag cctagctggt tgttgccctt cctcgtacc taggtcttca 300
acatcttggg cctctcttag gctgtgatgg aatctgaaat gaagtttgac aaggaccatg 360
atggactcat tgaaaatgga ggctatgcag accagaccta tgatggatgg gtgaccacag 420
gccccagggt agcgggtagg ggtttccagg aggcctgagg tgagaaactg ggcaacaagg 480
gattgtaggg ctcaagaaaag aatgactcat tgtctattac acggcatggg ancagctgga 540
gctgccagtc tgacccccaa acccatgtcc ctgatcagtg cttactgtgg agggctgtgg 600
ctggcagctg tggctgtgat ggtccagatg gctgctctgt gtggggcaca ggacatccag 660
gataagtttt cttctatcct cagccggggc caagaagcctatgagagact gctgtggaat 720
ggtgagttcg gggagcctaa gtagtcttaa ggcagctgag aggacaccag gagccttatt 780
tttctcttcc tcgactccag gccgctatta caactatgac agcagctctc ggcctcagtc 840
tcgtagtggt atgtctgacc agtgtgctgg acagtgggtc ctgaaggcct gtggtaggcg 900
agaaggagac actgaggtgt ttcctaccca acatgtggtc cgtgctctcc aaactatctt 960
tgagctgaac gtccaggcct ttgcaggagg ggccatgggg gctgtgaatg ggatgcagcc 1020
ccatgggtgc cctgataaat ccagtgtgca gtctgatgaa gtctgggtgg gtgtggtcta 1080
cgggctggca gctaccatga tccaagaggt aatgactcc ttttcccatc tctccaccat 1140
ctgtatcctg gccagaaaaa cttcctcaac caccaaattt cttcaaggca taacccaatg 1200
ccatcttgtc cgtctataaa gcctcccatt tttccctggg atgcattcca gctcctgcct 1260
tcaggcttct gtctgtgggt catagtattc tcctccactt gctgggagct ccttgaaggc 1320
aaagactcta ctgcctccat ctatccagtg gaagtggctc ttcagagggt gccaggttag 1380
tatgtatgac tgtcatctct cccaacaggg cctgacttgg gagggcttcc agacagctga 1440
aggctgctac cgtaccgtgt gggagcgctt gggctctggc ttccagaccn cagaggcata 1500
ctgccagcag cgagtgttcc gctcactgg ctacatgcgg ccaactgagca tatgggccat 1560
gcagctagcc ctgcaacagc agcagcacia aaaggcctcc tggycaaaag tcaaacaggg 1620
cacaggacta aggacagggc ctatgtttgg accaaaggaa gccatggcaa acctgagccc 1680
agagttagcc gtctgaactg tggragggaa gtgctaacag cccagcctcc agcctggcct 1740
ttcctccttc cctctgaacc tcctgcaacc ctgagccatc aggacaatca tacccttcc 1800
cttctctcca cccaattgtg ccagtaaatg ggggttgagg gtgacctagg cagcattaga 1860
atcacttatt tatttctttc ctcacctggt cctgactgac gtgaaatgtt cagggaggtc 1920
agttgatttc cccaggtaca ttatggtgtg gacagacaca tgggtacaaa taaaagaccc 1980
agaaagccaa aaaaaaaaaa 1999
```

```
<210> 163
<211> 1636
<212> DNA
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<213> Homo sapiens

<220>

<221> misc\_feature

<222> (424)..(424)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (823)..(823)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (960)..(960)

<223> n equals a,t,g, or c

<400> 163

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gaattcggca  | cgagttgaaa  | ttgaaaatca  | agataaaaaat | gttcacaatt  | aagctccttc  | 60   |
| tttttattgt  | tcctctagtt  | atttcctcca  | gaattgatca  | agacaattca  | tcatttgatt  | 120  |
| ctctatctcc  | agagccaaaa  | tcaagatttg  | ctatgttaga  | cgatgtaaaa  | attttagcca  | 180  |
| atggcctcct  | tcagttggga  | catgggtcta  | aagactttgt  | ccataagacg  | aagggccaaa  | 240  |
| ttaatgacat  | atttcaaaaa  | ctcaacatat  | ttgatcagtc  | ttttatgat   | ctatcgctgc  | 300  |
| aaaccagtga  | aatcaaagar  | gaagaaaagg  | aactgagaag  | aactacmtat  | aaactacaag  | 360  |
| tcaaaaaatga | agaggtaaag  | aatatgtcac  | ttgaactcaa  | ctcaaaaactt | gaaagcctcc  | 420  |
| tagnagaaaa  | aattctactt  | caacaaaaag  | tgaaatatatt | agaagagcaa  | ctaactaact  | 480  |
| taattcaaaa  | tcaacctgaa  | actccagaac  | accagaagt   | aacttcactt  | aaaacttttg  | 540  |
| tagaaaaaca  | agataatagc  | atcaaagacy  | ttctccagac  | cgtggaagac  | caatatwaac  | 600  |
| aattaaacca  | acagcatagt  | caaataaaaag | aratagaaaa  | tcagctcaga  | aggactagta  | 660  |
| ttcaagaacc  | cacagaaaatt | tctctatctt  | ccaagccaag  | agcaccaaga  | actactccct  | 720  |
| ttcttcagtt  | gaatgaaata  | agaaatgtaa  | aacatgatgg  | cattcctgct  | gaatgtacca  | 780  |
| ccattttataa | cagaggtgaa  | catacaagtg  | gcatgtatgc  | atncagaccc  | agcaactctc  | 840  |
| aagtttttca  | tgtctactgt  | gatgttatat  | caggtagtcc  | atggacatta  | attcaacatc  | 900  |
| gaatagatgg  | atcacaaaaac | ttcaatgaaa  | cgtgggagaa  | ctacaaatat  | ggttttgggn  | 960  |
| aggcttgatg  | gagaattttg  | gttgggccta  | gagaagatat  | actccatagt  | gaagcaatct  | 1020 |
| aattatgttt  | tacgaattga  | gttggaagac  | tggaaagaca  | acaaacatta  | tattgaatat  | 1080 |
| tctttttact  | tgggaaatca  | cgaaaccaac  | tatagctac   | atctagttgc  | gattactggc  | 1140 |
| aatgtcccca  | atgcaatccc  | ggaaaacaaa  | gatttggtgt  | tttctacttg  | ggatcacaaa  | 1200 |
| gcaaaaggac  | acttcaactg  | tccagagggt  | tattcaggag  | gctgggtggtg | gcatgatgag  | 1260 |
| tgtggagaaa  | acaacctaaa  | tggtaaatat  | aacaaaccaa  | gagcaaaatc  | taagccagag  | 1320 |
| aggagaagag  | gattatcttg  | gaagtctcaa  | aatggaaggt  | tatactctat  | aaaatcaacc  | 1380 |
| aaaatgttga  | tccatccaac  | agattcagaa  | agctttgaat  | gaactgaggc  | aaatttaaaa  | 1440 |
| ggcaataatt  | taaacattaa  | cctcattcca  | agttaatgtg  | gtctaataat  | ctggtattaa  | 1500 |
| atccttaaga  | gaaagcttga  | gaaatagatt  | ttttttatct  | taaagtcact  | gtctatttaa  | 1560 |
| gattaaacat  | acaatcacat  | aaccttaaaa  | aaaaaaaaaa  | aaaaactcga  | ggggggccccg | 1620 |
| gtaccaat    | cgccgg      |             |             |             |             | 1636 |

<210> 164

<211> 1392

<212> DNA

<213> Homo sapiens

<400> 164

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| attcggcaga | gcagaaaacc | agactgcact | tgctttataa | aacagagctt | tatttttctc  | 60  |
| tcataataag | cagagttgca | gtgttgctgg | tattgattca | ctggcgtggg | ggatcacgga  | 120 |
| cagatgtctc | tatgattaat | ttttggcctg | tactcatgt  | ttgcatatgg | ctgttggtggc | 180 |
| tccaagcatt | ggaagcaaga | ggacaggga  | gcaacattga | ctgtaccagg | aactccaaaa  | 240 |



|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| cagtcttcac | atcttaatgg | ttggacaatg  | ccaaatgggc  | actcttttct  | ggaagttgac  | 300  |
| tggggacaag | atagtggtaa | ggattagatt  | tggccagaaa  | gtttctgcca  | cagtgagctt  | 360  |
| tcctgtctaa | atccttattt | taactgttgt  | cacttaatat  | tcacactttg  | gaaggacat   | 420  |
| tactgttggt | tacaattatg | aaaccaactt  | gaatactttt  | tagttgaaca  | tttcagtagt  | 480  |
| cttaattatg | tttaaatagg | tttcacaatt  | tactgttttt  | agtttagttt  | ccggctcccc  | 540  |
| ccaaccccc  | acttttgyta | gagagttact  | ctcttaactt  | ttgctagaaa  | gtagcaaagt  | 600  |
| tctctactct | acatgttcag | ggtggctgt   | agaatttcgt  | tttttaagga  | aacaggaaga  | 660  |
| cagaactaat | tatgcaagtc | ttcattttagc | tttttaaaaa  | aacagcttta  | ttgagttaga  | 720  |
| attgacatgc | agtaaattgt | acataatttaa | agcgtacaat  | ttgttaagtt  | ttgacataag  | 780  |
| tatacattgt | gaaaacatca | gtcaccacaa  | tcaggatact  | tatttttaaaa | aaactttta   | 840  |
| tttaggatta | gtatactgat | aatgtgtcca  | ttgtaagtgt  | acattttcag  | ttttgacaaa  | 900  |
| tgtatagatt | tttgaacta  | ccaccaccag  | tcaagatgaa  | aacgtttcta  | gcactccaga  | 960  |
| aagttccctt | gtgtcccttc | ttggtcagtt  | attcccacca  | tgctctcagg  | caaccacagt  | 1020 |
| tctgttctta | tcactatata | agtgacagaa  | tttttctaca  | gaatttcaca  | tagatggaat  | 1080 |
| catacaatat | gtactgttct | gtctggcttc  | ttgaggttaag | ccaaatgtct  | tttaagagtc  | 1140 |
| atgcatgttt | ttgcatttat | tagtagttta  | ttcttttttt  | gttggtgagt  | agcattcatt  | 1200 |
| gtatggatat | attccagctc | gttttattca  | ttcacttttt  | ggacattgg   | gttggttatca | 1260 |
| attttgggct | cttttgaatt | aatccctccc  | tccttccctc  | cttcccycct  | tcctctcttc  | 1320 |
| cctccctccc | tcctctcttc | cctccctcct  | tccttccctc  | cctccctccc  | tccttttttt  | 1380 |
| ttttcggcac | ga         |             |             |             |             | 1392 |

<210> 165  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 165  |             |            |            |            |            |     |
| ggcacgagct | agctgccgcc  | acccgaacag | cctgtcctgg | tgccccggct | ccctgccccg | 60  |
| cgcccagtc  | tgaccctgcg  | cccctcactc | ctcccgcctc | atctgctgct | gctgctgctg | 120 |
| ctcagtgcgg | cgggtgtgccg | ggctgaggct | gggctcgaaa | ccgaaagtc  | cgtccggacc | 180 |
| ctccaagtgg | agaccctggt  | ggagccccc  | gaaccatgtg | ccgagcccg  | tgcttttgga | 240 |
| gacacgcttc | acatacacta  | cacgggaagc | ttggtagatg | gacgtattat | tgacacctcc | 300 |
| ctgaccagag | accctctggt  | tatagaactt | ggccaaaagc | aggtgattcc | aggtctggag | 360 |
| cagagtcttc | tcgacatgtg  | tgtgggagag | aagcgaagg  | caatcattcc | ttctcacttg | 420 |
| gcctatggaa | aacggggatt  | tccaccatct | gtcccagcgg | atgcagtgg  | gcagtatgac | 480 |
| gtggagctga | ttgcactaat  | ccgagccaac | tactggctaa | agctggtgaa | gggcattttg | 540 |
| cctctggtag | ggatggccat  | ggtgccagcc | ctcctgggcc | tattgggta  | tcacctatac | 600 |
| agaaaggcca | atagacccaa  | agtctccaaa | aagaagctca | aggaagagaa | acgaaacaag | 660 |
| agcaaaaaga | aataataaat  | aataaatttt | aaaaaactta | aaaaaaaaaa | aaaaaaa    | 717 |

<210> 166  
 <211> 832  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (827)..(829)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (831)..(831)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| <400> 166  |            |            |            |            |            |    |
| gaattcggca | cgagtatgaa | actaacaaca | tagaatgccc | cccaaacaaa | ttcctctaac | 60 |

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| ctcactgagt  | ttacttgccc | tattactatt | ttttttttt  | aagatcttct  | gtctcttggt | 120 |
| tttgttttat  | cccttacctg | atgaaagtga | acatttctag | tggagaaaga  | agatcacagt | 180 |
| tctctaatat  | gggcattaag | agaggggtac | agctagaggg | gaggtgaaaa  | cctgcctcca | 240 |
| ctgggggtgaa | aaacagtggt | ctgagggttc | agccagtgat | tacactgggt  | aatcaaccag | 300 |
| tcccatgttt  | cacaaaggag | ttgtaatgat | taacagttca | ggtatgctty  | tgaggaaatc | 360 |
| taattgagac  | ctttggaaaa | tagcattgtt | atgaatgggt | tgggtgttacg | ccctggaggg | 420 |
| gaaaaggcta  | ggaaaaacat | tttaactttt | caagtgtatt | taaattaaca  | tccaaatggt | 480 |
| tcagtgtgct  | ttactggaga | ctgcctgagt | ttggaattca | aatattgtaa  | ccaaattact | 540 |
| ccaggtttct  | gaactaaaat | gatctattga | tgtttctcaa | agtatagatc  | acagagtaag | 600 |
| aaaagaggaa  | atcaagtcgt | gtttatgaca | aacttttttc | catgttaaca  | ttggacccaa | 660 |
| agatgttamt  | aagagctttt | tactactgtg | agagraccag | cgtgatgtga  | agacaacgaa | 720 |
| cattttaaga  | agtttgacta | gtagacattt | cgtttaagtc | ttttggaggg  | tcttggttga | 780 |
| caaccacaa   | ttttattgtg | gctccccag  | ctgggagaac | gtggaannnc  | na         | 832 |

<210> 167  
 <211> 734  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| ggcacgagtt  | aaaaacgaat | tgtagttggt  | ttcttctcatt | taaaatggat  | ctggttgagg | 60  |
| ttatgtgtgt  | atgttgtagt | tttattgcag  | ccacaataat  | tttaccaaag  | ttttcacata | 120 |
| ggcagtttagc | ctttacttaa | tatcaagaca  | agtgaaaaaa  | tattggcatc  | gatgaaaccg | 180 |
| ataacattgg  | cctcattgga | tttctttacc  | cattcacagt  | gtaaagaagt  | taccttcatg | 240 |
| ctttcattgt  | acctgcaggc | ctgtgggctt  | gtacagtaga  | taattaattt  | ctaaaaagaa | 300 |
| cagctgcccc  | ttttcttctt | aggtttaggt  | atatcttcat  | aatcacaaga  | attagtgatg | 360 |
| gcaaaataaa  | attttgctta | tgaatctttt  | acattgttta  | tatatgatta  | atatcatcat | 420 |
| atatattttc  | tgtattaagc | tcatttggtt  | tcattttaagc | tgtatactta  | gtcatatatc | 480 |
| tttcattagt  | tctatggata | tgagcagatc  | cctttactgg  | agcccagtat  | gtgctgtgtg | 540 |
| agttagaagt  | cattcttgct | gagaagggtga | ataggtaggg  | atttgccttg  | ttttgtaagt | 600 |
| ctacaatttg  | ccaagagtaa | ataacactgg  | accagctgta  | aaagtaaaca  | gtgtgttat  | 660 |
| gcattgagat  | actaaagcat | ttaagaaaaa  | attaaaagat  | ctctttttgtt | taaaaaaaaa | 720 |
| aaaaaaaaaa  | aaaa       |             |             |             |            | 734 |

<210> 168  
 <211> 1209  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1097)..(1097)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1120)..(1120)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1127)..(1127)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1141)..(1141)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1161)..(1161)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1197)..(1197)

<223> n equals a,t,g, or c

<400> 168

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| nccggtatgt | ggccccgtct | ggctagtccc  | gcctagcgcg  | cccatttcga  | gccaagttt   | 60   |
| ccagctcggg | tttccaggct | cagaattttc  | caggagtagg  | ttcttgggca  | gtggctgtgg  | 120  |
| gagctggaat | ggcgagctg  | gaaggttact  | atttctcggc  | cgccctgagc  | tgtacctttt  | 180  |
| tagtatcctg | cctcctcttc | tccgcttca   | gccgggctgt  | gcgagagccc  | tacatggacg  | 240  |
| agatcttcca | cctgcctcag | ggcgagcgct  | actgtgaggg  | ccatttctcc  | ctttcccagt  | 300  |
| gggatcccat | gattactaca | ttacctggct  | tgtacctggg  | gtcaattgga  | gtgatcaaac  | 360  |
| ctgccatttg | gatctttgga | tgggtctgaac | atgttgtctg  | ctccattggg  | atgotagat   | 420  |
| ttgttaatct | tctcttcagt | gttggcaact  | tctattttact | atatttgctt  | ttctgcaagg  | 480  |
| tacaacccag | aaacaaggct | gcctcaagta  | tccagagagt  | cttgtcaaca  | ttaacactag  | 540  |
| cagtattttc | aacactttat | ttttttaact  | tcctttatta  | tacagaagca  | ggatctatgt  | 600  |
| tttttactct | ttttgcgtat | ttgatgtgtc  | tttatggaaa  | tcataaaaact | tcagccttcc  | 660  |
| ttggattttg | tggcttcatg | tttcggcaaa  | caaatatcat  | ctgggctgtc  | ttctgtgcag  | 720  |
| gaaatgtcat | tgcacaaaag | ttaacggagg  | cttggaaaac  | tgagctacaa  | aagaagggaag | 780  |
| acagacttcc | acctattaaa | ggaccatttg  | cagaattcag  | aaaaattcttc | cagtttcttt  | 840  |
| tggcttattc | catgtccttt | aaaaacttga  | gtatgctttt  | gcttctgact  | tggccctaca  | 900  |
| tccttctggg | atttctgttt | tgtgcttttg  | tagtagttaa  | tggtggaatt  | gttattggcg  | 960  |
| atcgagtag  | tcatagaagc | tgtcttcatt  | tccttcaact  | attctacttt  | ttttcattta  | 1020 |
| ctctcttttt | ttcttttctt | catctcctgt  | ctcctagcaa  | aattaagact  | tttcttttcc  | 1080 |
| ttagtttggg | aaacgtngaa | ttctgttttt  | tgggtggttan | cttagtnctc  | tgtgggtttt  | 1140 |
| nagtttggga | aattccaatt | natggctcaa  | gaaatacttg  | cttagcagac  | caatagncca  | 1200 |
| ttataattt  |            |             |             |             |             | 1209 |

<210> 169

<211> 2149

<212> DNA

<213> Homo sapiens

<400> 169

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| acgaggaaga | gccggccgaa  | gcgtggcggc | cacagactgt | gggtaccggg | tccgagggac  | 60  |
| tcgcgctttt | ctctccgtgc  | catggcgcca | gcgaaagcca | cgaacgtggg | gcggctgcta  | 120 |
| ctaggctcca | cagcgctgtg  | gctttcgtag | ctcggtcccg | ggacggtcgc | cgcgctccaag | 180 |
| tcggtgactg | cccacttggc  | cgcgaaagtg | cccagagacc | cgtgctgct  | ggaggcaagt  | 240 |
| gaatttatgg | cagaagaaa   | taatgaaaaa | ttttggcagt | ttttggaaa  | tgtgcaagaa  | 300 |
| ttagcaattt | ataagcaaac  | agaatcagat | tattcttatt | acacttaat  | cctgaagaaa  | 360 |
| gctggacagt | ttctagacaa  | tttacacatc | aaccttttaa | agtttgcttt | ctctataagg  | 420 |
| gcatactccc | cagctattca  | gatgtttcag | cagattgcag | ctgatgagcc | accaccagat  | 480 |
| ggttgtaatg | catttggtgt  | tattcataag | aagcacacct | gtaaaattaa | tgagattaaa  | 540 |
| aagctgctga | agaaagctgc  | ttcaaggact | agaccttatt | tatttaaagg | agatcacaaa  | 600 |
| tttctacaaa | acaaaagagaa | cttaccagtg | gtgattctct | atgccgaaat | gggtactaga  | 660 |

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| acatttagtg | catttcacaa  | agtattgtct  | gaaaaagctc | aaaatgagga  | aattctgtat  | 720  |
| gttcttcgcc | atttatattca | gaaaccaagc  | tcacggaaa  | tgtacttatc  | tgggtatgg   | 780  |
| gtggagctag | caattaagag  | tacagaatac  | aaagcactgg | atgataccca  | agttaaaact  | 840  |
| gtgactaata | ctactgtaga  | ggatgagact  | gaaacaaatg | aagttcaagg  | atttctcttt  | 900  |
| gggaaactaa | aagaaatata  | ttcagatctt  | agagataatc | tgacagcatt  | ccaaaaatac  | 960  |
| ctgattgaga | gtaacaaaca  | aatgatgcct  | ttgaaagtct | gggaactaca  | agatcttagt  | 1020 |
| tttcaagcag | cttctcaaat  | aatgtccgct  | ccagtttatg | atgccattaa  | attaatgaaa  | 1080 |
| gacatttcac | agaacttccc  | cataaaaagcc | agagtccaaa | tgatttggtaa | tgtcttaatt  | 1140 |
| ggatgaatat | tgtgtggagt  | acttttttgc  | cgagggatg  | tctcgttgaa  | ctgcttccat  | 1200 |
| gaatactgat | gttacattaa  | acatatattc  | catttcaata | ggaaatacat  | ttgcatagct  | 1260 |
| taaagagacc | ggtgcatgca  | atgcaagtta  | ccacgtatta | tgagaatttg  | ctatataaca  | 1320 |
| caactttgat | gcaattgtat  | tctggtttag  | gatgacagag | tataaaatta  | gcaacaagta  | 1380 |
| aaatatgat  | tagctttatac | taaagagata  | aaatatgtga | caagtcgcag  | tgcatgggca  | 1440 |
| acaatggtgt | tttactgaga  | ggaattggag  | agcagtctac | tagcttagca  | taccttccta  | 1500 |
| agcatagaat | gattgctatg  | cctcttattg  | tcccaaacac | tattttgtac  | atttattcat  | 1560 |
| catacagatt | acagaatctt  | caatatagt   | attctttaat | tttgaaaagta | aataaaatagt | 1620 |
| acatggttgg | ctacaagata  | ccaaggattt  | tttgggtgga | ccttgaaata  | aaggagtttg  | 1680 |
| ttccttattt | acagattaag  | aatgaatata  | ttgatatgcc | tctttcagtc  | aactttaaat  | 1740 |
| gtcaagaatt | tgagaagtcg  | tcattttatat | aataaaacat | gaaatatata  | tgggtgtga   | 1800 |
| taaatgtcat | atctgttttag | ccataatatt  | ttaattaatg | gccgttataa  | aaattatttag | 1860 |
| atcaaataca | aataaaagtaa | aataacttta  | gtcttgatca | gacagttgat  | tagctctatt  | 1920 |
| gatgctaagt | cagtataact  | gttcagaggt  | tctgatgcaa | aactctgctg  | ttaatctgta  | 1980 |
| attaagaaaa | aattataaaa  | tatgctaaca  | ttgcttaatg | gctaaattgt  | aggcttgagc  | 2040 |
| atatctctaa | aaccacttgg  | tagacaatct  | gtaaattgtt | gttgaaatga  | aatatttgct  | 2100 |
| aaataaatga | aaaatttgc   | ttaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  |             | 2149 |

<210> 170  
 <211> 1084  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 170  |            |            |            |             |            |      |
| ggtttggggg | catcacagac | tacacccgta | tgagaggatg | aactttaatg  | ataaattgtg | 60   |
| tgtgtgtgca | tgcatgtgtg | cgtgcatgtg | gactgttaca | ctcattgggc  | cttctgctgt | 120  |
| ctctctccct | ctcctcagcc | ctctttattc | cctgggacac | agaaattttt  | aaataaggcc | 180  |
| aattaataat | cctacatttg | tctcttacgt | gttagagtga | aaagaagatt  | cacatatctc | 240  |
| tcatttttaa | ttgaaagcta | gaaatgatta | agcttagtga | ggaagccatg  | ttgaaagctg | 300  |
| agatagtcca | aaaactaggg | ctcttgacc  | agttagccaa | gttgtgaatg  | caaaagaaaa | 360  |
| gtgcctggag | gatattttaa | atgctgctcc | agtgaacaca | caaacgatag  | gaagcaaaa  | 420  |
| tagccttatt | gctgatattg | agaaagtttt | aatggctctg | atagaagatc  | aaaccaactg | 480  |
| caacatttcc | ttaagcaaaa | tcctaattca | gaacacagcc | atagctgtct  | ccaattctat | 540  |
| gaagacagag | cagagaggaa | gctgtggaag | taaagtttga | aaataagagg  | ttgttcatga | 600  |
| ggtataagga | aagaagacat | ctccataaca | taaaagtgtg | agtgaacat   | caagtgcgaa | 660  |
| tacagaagct | gcagcaagtt | atccagaaaa | tctaagatca | ttgaagaagg  | tggtacact  | 720  |
| aaacaataga | ttttcaatat | agacaaaaga | gccttctgtt | gatttttaggc | atctagccta | 780  |
| aatggaaga  | agatgccatc | taggacttta | atgggtagag | aggagagtt   | gatacctgtc | 840  |
| ttcaaagtaa | agactgactc | ttttgttagg | ggctgttgca | gctggtgaca  | ttaagttgaa | 900  |
| gccaatgctc | attcaccatt | ccagaaatcc | ttgtgccctt | aagaattatg  | ctaaatctac | 960  |
| tctgactgtg | ttctacaagt | agaacaacaa | agcctggatg | acagcatatc  | tgtttatagt | 1020 |
| catggtttac | taaatatttt | aagcccactg | ttgagacctc | ctgctcagaa  | aaaaaaactc | 1080 |
| gtag       |            |            |            |             |            | 1084 |

<210> 171  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (49)..(49)  
 <223> n equals a,t,g, or c

<400> 171  
 ccgtttgccg gccgcctcn tgggaentgg tgggtccccc ccgggcctnc agggattcgg 60  
 cmcgrgtgca tacatgccta cctatgtata tataaacaaa catttttgta aacagctcag 120  
 tgaggacttt ggactggcat aaatcatagg aatatgatta tgaggataca tccaattttc 180  
 agattgggca atgtatacag tttattatca tttctgattt tgggtagagt tagtactaag 240  
 aacagcattg aagaaaagca gtataacatt aaaattaga agatttaaaa tacaagagga 300  
 ttcataacag tcacttttaa aatattgttt tggctttcta ctttggagct gtaattttaa 360  
 aaaaagaatg aacaggtttt tgtatgaata tgttagaatg actaattata gagcatcttt 420  
 caactggaat acatgtagat actaacacct gggtgtattt gatgtaattt cagtgcatac 480  
 agtgtgtgta atctgtatta agtgaaatac ttatgaataa agttgtttct gcattgcaaa 540  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaactc ga 582

<210> 172  
 <211> 1046  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (483)..(483)  
 <223> n equals a,t,g, or c

<400> 172  
 agcaagttca cagtagaagg aggttgagat ctttctttta tgtgagaaat ctttgaatct 60  
 cattcatgcg atcagagttg tagccaattt ttgaaaacct tattttcaaa ggaaataaat 120  
 gattcactgt aggattcctt taaatatcaa gcatcaccag tatatgcttt gatggtatat 180  
 gtatataact taaagttctt tcaaaagcct gatacagaaa cgtgtcccca gtttggtagc 240  
 aatgtggaaa acctggctag agatgatatg gagctgtccc tcagaaagca aagccatgcc 300  
 tggaatccct aataggctgc ttagttgtga acctgtttga tttgccttaa gcctctatcc 360  
 agaaacctgc ccgcttccgt ctggttaaag agccagtggt ggatattttc tttgttaaca 420  
 ttagaaatgc aaacattccc ttgtcaacca agaatactca aagctacttg tattggaaat 480  
 ggnccagaagg cctaaatcca aatttcttat tttttataat ttaccataga agttttgtga 540  
 ttaaattcct acttctgcca gtggaggttt atgcctgaaa gtcatggggc cctgtctgta 600  
 aatagaccta aagagaatg cagtatttat tctttgtagg cataatgtgt ttgtcactga 660  
 caagcattca tattcatccc actagtcttt tattgcagtc ttttattgtc attttcagcc 720  
 ttatgttgga gagctttgct ttctcatcat gttcacattg tcttaagttt tgtgagcttc 780  
 tgagaaagag cttggttaaag gttaaagggt gactttgttc caccagggag cattttatatt 840  
 gggcgtctca cccttttcta atgaaagctg ttgtaagcca cctctgactt ggaaattctg 900  
 aaagtatgaa tattttttat atcttaattg taaaatgcca gttctccatt atttagatga 960  
 atagtagaac actgcacctt ttgtgcagtg tttttgtttc tctactgcat tccaccccc 1020  
 accaaaaaaaa aaaaaaaaaa actcga 1046

<210> 173  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

```
<400> 173
ctgcaggaat tcagcacgag ytgccatgtg acaaccacag gctgcctgaa aatggataacc      60
aaatcctgta caagcgactc taactgccag gagagtcctt caccttcatg tgctacgaag      120
gctttgagct catgggtgaa gtgaccatcc gctgcctcct gggacagcca tccactgga      180
acggggcccct gcccggtgtg aaagtagcag aagcggcagc agagacgtcg ctggaagggg      240
ggaacatggc cctggctatc ttcattcccg tctcatcatc ctccttactg ctggaggag      300
cctacattta catcacaaga tgtcgctact attccaacct ccgcctgcct ctgatgtact      360
cccaccctta cagccagatc accgtggaaa ccgagtttga caaccctatt tacgagacag      420
gggaaaccag agagtatgag gtttctatct aaagagagct acacttgaga aggggacttg      480
tgaactcaac cacaatctcc tcgagggggg gccggtaccc aattcgscct atagtgagtc      540
gtattacaat taatgggc                                558
```

<210> 174  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (678)..(679)  
 <223> n equals a,t,g, α c

```
<400> 174
actacggctg cgagaagacg acagaagggg ggcggcgacg gagggaggag atggaggcgg      60
tggtgttcgt cttctctctc ctogattgtt gcgcgctcat cttcctctcg gtctacttca      120
taattacatt gtctgattta gaatgtgatt acattaatgc tagatcatgt tgctcaaaat      180
taaacaagtg ggtaattcca gaattgattg gccataccat tgtcactgta ttactgctca      240
tgtcattgca ctggttcatt ttccttctca acttacctgt tgccacttgg aatatatatc      300
gatacattat ggtgccgagt ggtaacatgg gagtgtttga tccaacagaa atacacaatc      360
gagggcagct gaagtcacac atgaaagaag ccatgatcaa gcttggttc cacttgctct      420
gcttcttcat gtatctttat agtatgatct tagctttgat aaatgactga agctggagaa      480
gccgtgggtg aagtcagcct acactacagt gcacagttga ggagccagag acttcttaaa      540
tcctccttag aaccgtgacc atagcagtat atattttcct cttggaacaa aaaactatct      600
ttgctgtatt tttaccatat aaagtattta aaaaacatga aaaaaaaaaa aaaaaaaaaa      660
aaaaaaaaaa aaaaaaanna aaaaaa                                685
```

<210> 175  
 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (587)..(587)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1634)..(1634)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (1648)..(1648)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1659)..(1659)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1668)..(1668)  
 <223> n equals a,t,g, or c

<400> 175  
 aggcgccttag gggctgaggg gcgatggcag gtgtcggggc tgggcctctg cgggcgatgg 60  
 ggccggcaggc cctgtctgtt ctgcgcgtgt gcgccacagg cggccagggg ctctacttcc 120  
 acatcggcga gaccgagaag cgctgtttca tgcaggaaat ccccgacgag accatgggtca 180  
 tcggtcaggc gggctgaggg tggggaggcc ctttgtaccc agctcagccc tcggcggcgc 240  
 tccctcctcc cgagcccagc cgggtcgtgt gctccccag tacctagcct gagggtgccc 300  
 cgaggacgcc agggcccctg cctagagctc cgggcgcac gtcggagggggccgggcgga 360  
 gaggcggccc actagggccg gtcgtgacta tgtgtctgcc ccgcaggcaa ctatcgtacc 420  
 cagatgtggg ataagcagaa ggaggtcttc ctgccctcga cccctggcct gggcatgcac 480  
 gtggaagtga aggaccccga cggcaagggt gtgctgtccc ggcagtacgg ctcgaggggc 540  
 cgcttcacgt tcacctccca caccgccggg gaccatcaaa tctgtcngca ctccaattct 600  
 accaggatgg ctctcttcgc tgggtggcaaa ctgcgkgtgc atctcgacat ccagggttggg 660  
 gagcatgcca acaactaccc tgagattgct gcaaaagata agctgacgga gctacagctc 720  
 cgcgcccgcc agttgcttga tcagggtgaa cagattcaga agggcagga ttaccaaagg 780  
 gcaagtgcac atctccttgt aatttgagag ggcagttgac ctttataccc actataccta 840  
 ctcaagtttc tgcttgggag atcagctctg cagagaatgg aatgagaagt attggtttag 900  
 ataggttgtt tgtttgttgt ttttgagacg gagtttact cttgttgccc atgctggagt 960  
 gcaatgccat gatcttggt cactgcaacc tccgcctccc caggctgagg caggagaatg 1020  
 gcgtgagctc gggagggtgga gcttgacagt agctgagatc gtgccactgc actccagcct 1080  
 gggcgacaga gtgagactcc ttctaaaaaa caaaaacaa accaaaacag tagttagggt 1140  
 acacacacac aaattctagt gattttcccc ccagtacta ccttgacttt tgaaattcct 1200  
 gctttctcag agtttacaac atccttacca aacagccttc tccctcctta ccacaaaaaa 1260  
 araaaaaaa gttctggggg tgaggggaca ctccattctt aacatcctct attatcccag 1320  
 cccaattccc cagctctcac tgggactagt tgtacctatc ttcattcatt tgggtcccagc 1380  
 atgactacct gttggtgcat gagctgatct ctccctaacct aacagccaga tgctagtctc 1440  
 tgggtactyag atgctgggct gcatcagata ggatgcacag gatcatcctg ggaagcttgt 1500  
 tgacatagat tcctgtgcaa cacttcagat atagtcttaa tgtagatttg tgttgggggtg 1560  
 gtatggtagg tagaataatg ggcctaccac tggtaaaaca tatggatatg tttacctaac 1620  
 atgacagaag aganttaagt tgctaataatn atgactgtna aataaatna 1669

<210> 176  
 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (806)..(806)  
 <223> n equals a,t,g, or c

<400> 176  
 ggcacgagt gctgcagcgg ggcccgcgtg gtgcctcctg aggcggcccc cgcatgaaga 60  
 gatctgggaa cccgggagcc gaggtaacga acagctcggg ggcagggcct gactgctgcg 120

|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| gaggcctcgg | caatattgat | tttagacagg  | cagacttctg  | cgttatgacc | cggtgctgg  | 180  |
| gctacgtgga | ccccctggat | cccagctttg  | tggtgcccgt  | catcaccatc | accttcaatc | 240  |
| cgctctactg | gaatgtggtt | gcacgatggg  | aacacaagac  | ccgcaagctg | agcagggcct | 300  |
| tggatcccc  | ctacctggcc | tgctactctc  | taagertcac  | catcctgctc | ctgaacttcc | 360  |
| tgcgctcgca | ctgcttcacg | caggccatgc  | tgagccagcc  | caggatggag | agcctggaca | 420  |
| ccccgcggc  | ctacagcctg | ggcctcgcg   | tcctgggact  | gggcgtcgtg | ctcgtgctct | 480  |
| ccagcttctt | tgactgggg  | ttcgctggaa  | ctttcctagg  | tgattacttc | gggatcctca | 540  |
| aggaggcgag | agtgaccgtg | ttcccccttca | acatcctgga  | caaccccatg | tactggggaa | 600  |
| gcacagccaa | ctacctgggc | tggccatca   | tgacgccag   | ccccacgggc | ctgctcctga | 660  |
| cggtgctggt | ggccctcacc | tacatartgg  | ctctcctata  | cgaagagccc | ttcaccgctg | 720  |
| agatctaccg | gcagaaagcc | tccgggtccc  | acaagaggag  | ctgattgagc | tgcaacagct | 780  |
| ttgctgaagg | cctggccagc | ctcctngctg  | ccccaaagtgg | caggccctgc | gcagggcag  | 840  |
| aatggtgcct | gctgctcagg | gctgcccccg  | gcgtgggctg  | ccccagtgcc | ttggaacctg | 900  |
| ctgccttggg | gaccctggac | gtgccgacat  | atggccattg  | agctccaacc | cacacattcc | 960  |
| cattcaccaa | taaaggcacc | ctgaccccaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | 1020 |
| aatttggggg | ggggcccc   |             |             |            |            | 1038 |

<210> 177

<211> 921

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (11)..(11)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (15)..(15)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (901)..(901)

<223> n equals a,t,g, or c

<400> 177

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| gcnnggggna  | naggnaagcn  | ccccactatt  | gggttcaaaa  | gctggagctc | caccgcgggtg | 60  |
| gcggccgctc  | tagaactagt  | ggatcccccg  | ggctgcagga  | attcggcacg | aggtctgagc  | 120 |
| agataagatt  | aagggtctgg  | tctgtgtctca | attaaactcct | gtgggacgg  | gggctgggaa  | 180 |
| gagcaaaagtc | agcgggtgcct | acagtcagca  | ccatgctggg  | cctgccgtgg | aagggtggtc  | 240 |



|            |            |            |            |              |            |     |
|------------|------------|------------|------------|--------------|------------|-----|
| tgtcctgggc | gctgctgctg | cttctcttag | gctcccagat | cctgctgata   | tatgcctggc | 300 |
| atttccacga | gcaaaggagc | tgtgatgaac | acaatgtcat | ggctcggtac   | ctccctgcc  | 360 |
| cagtggagtt | tgctgtccac | acattcaacc | aacagagcaa | ggactactat   | gcctacagac | 420 |
| tggggcacat | cttgaattcc | tggaaggagc | aggtggagtc | caagactgta   | ttctcaatgg | 480 |
| agctactgct | ggggagaact | aggtgtggga | aatttgaaga | cgacattgac   | aactgccatt | 540 |
| tccaagaaag | cacagagctg | aacaatactt | tcacctgctt | cttcaccatc   | agcaccaggc | 600 |
| cctggatgac | tcagttcagc | ctcctgaaca | agacctgctt | ggagggattc   | cactgagtga | 660 |
| aaccactca  | caggcttgct | catgtgctgc | tcccacattc | cgtggacatc   | agcactactc | 720 |
| tyctgaggac | tcttcagtgg | ctgagcagct | ttggacttgt | ttgttatcct   | atcttgcatg | 780 |
| tgtttgagat | ctcagatcag | tgttttagaa | aatccacaca | tcttgagcct   | aatcatgtag | 840 |
| tgtagatcat | taaacatcag | cattttaaga | aaaaaaaaaa | aaaaaaaaarct | cgaggggggg | 900 |
| nccggtaccc | agggcggaag | a          |            |              |            | 921 |

<210> 178  
 <211> 894  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 178  |            |            |            |            |            |     |
| ggcacgaggt | actgccgggc | tgccgggtcc | ctgctctggg | tacttctctg | ctttcggggc | 60  |
| tctcgtctag | aagctgcagc | ttggcctgtc | tcacctctac | acagaggggc | tgctggcgcc | 120 |
| tgacggaaaa | aggtccacac | accgatggc  | cggcccgggg | tggacgctgc | tgctactgct | 180 |
| gctgctgctg | ctgctgctgg | ggtccatggc | agggatagg  | ccacagaaga | agttgaacct | 240 |
| gtcccataag | ggcatcgggg | agccatgcgg | gagacacgag | gagtgccaga | gcaactgctg | 300 |
| taccatcaac | agcctggccc | cacacacgct | ctgcacccct | aagaccatct | tctgcagtg  | 360 |
| cctgccctgg | aggaagccca | atgggtacag | atgctgcac  | gactcagagt | gccagagcag | 420 |
| ctgctgcgtc | cgcaacaaca | gcccgcagga | gttgtgcacg | ccccaaagcg | tcttcctgca | 480 |
| gtgtgtgccc | tggcgcaagc | ccaacggcga | cttctgcagc | agccatcagg | agtgtcacag | 540 |
| ccagtgcctg | atccagctga | gggagtacag | ccccttccgc | tgcattcccc | ggaccgggat | 600 |
| cctggcccag | tgccctgccc | tgtgatgtga | gctcgaaact | gggcgcgagg | gaccggcctg | 660 |
| ggccctggga | tgttcacgca | ggaccgcgtt | gcgcgggggc | tggttccagc | ggaagcttcc | 720 |
| cttacggttt | gtgctgctgt | ttctggggct | ctgaaaatct | gtgggaactg | aaaggctgtg | 780 |
| accagcctgg | tggcgcgaag | tgtctgtgag | aacaaatccc | aggcactggg | gtgtagcctg | 840 |
| attgttaaac | atcaataaag | gctcctggcc | gactgaaaaa | aaaaaaaaaa | aaaa       | 894 |

<210> 179  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 179   |            |            |            |            |            |     |
| ggcacgagat  | agaaccact  | gcctcctgat | gaagtcccta | ctgttcaccc | ttgcagtttt | 60  |
| tatgctcctg  | gcccgaattg | tctcaggtaa | ttggtatgtg | aaaaagtgtc | taaacgacgt | 120 |
| tggaatttgc  | aagaagaagt | gcaaacctga | agagatgcat | gtaaagaatg | gttgggcaat | 180 |
| gtgctggcaaa | caaagggact | gctgtgttcc | agctgacaga | cgtgctaatt | atcctgtttt | 240 |
| ctgtgtccag  | acaaagacta | caagaatttc | aacagtaaca | gcaacaacag | caacaacaac | 300 |
| tttgatgatg  | actactgctt | cgatgtcttc | gatggctcct | acccccgttt | ctcccactgg | 360 |
| ttgaacattc  | cagcctctgt | ctcctgctct | aggatccccg | actcattaaa | gcaaagaggc | 420 |
| ttaaaaaaaaa | aaaaaaaaaa | aa         |            |            |            | 442 |

<210> 180  
 <211> 582  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| <400> 180  |            |            |            |            |            |    |
| ggcacgagat | atttcgctgg | accctagaaa | agccaccacg | acctgtgggc | catgatgcta | 60 |

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| ccccaatggc | tgctgctgct | gttcctttctc | ttctttctttc | tcttcctcct | caccaggggc | 120 |
| tcactttctc | caacaaaata | caaccttttg  | gagctcaagg  | agtcttgcac | ccggaaccag | 180 |
| gactgcgaga | ctggctgctg | ccaacgtgct  | ccagacaatt  | gcgagtcgca | ctgcgcggag | 240 |
| aaggggtccg | agggcagctc | gtgtcaaacg  | caggtgttct  | ttggccagta | tagagcgtgt | 300 |
| ccctgcctgc | ggaacctgac | ttgtatatat  | tcaaagaatg  | agaaatggct | tagcatcgcc | 360 |
| tatggccggt | gtcagaaaat | tggaaggcag  | aagttggcta  | agaaaatggt | cttctagtgc | 420 |
| tccctccttc | ttgctgcctc | ctcctcctcc  | acctgctctc  | ctccctaccc | agagctctgt | 480 |
| gttcaccctg | ttccccagag | cctccaccat  | gagtgaggag  | aagtggggag | tgattgaaat | 540 |
| aaagagcttt | ttcaatgaaa | aaaaaaaaaa  | aaaaaaaaaa  | aa         |            | 582 |

<210> 181  
 <211> 809  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 181  |            |            |            |             |            |     |
| ggcacgagct | cgaactctcc | actgtcccca | tttcctgcaa | cagcatctca  | gagggcttga | 60  |
| ggtggctatc | aggccttcca | tcacagcata | aagctccttc | agggagagaa  | gagcgaaggc | 120 |
| accaggctg  | gggaacagca | gctcctacta | tacctacctt | gcccactctg  | gtccaaccgt | 180 |
| gggcttggcc | tgactttaga | ctggaacccc | ttagtgtctc | tggtcctggg  | gtggagcaga | 240 |
| tccacctacc | ccaggggaaa | tgccaactac | tttgcccttc | gacctgatgc  | tcctgtgggt | 300 |
| gggcttgcca | agcctgccct | cccagtga   | agaagagggc | cgtcttgtga  | aaggcctcag | 360 |
| gctgacctt  | gcagcaccag | cctctgaggt | actgccagac | tggaagacc   | ctcccagcca | 420 |
| cccaacagcg | tgggccagc  | ccaggacaca | tcagcccagc | actccaaatt  | ctatcaagag | 480 |
| tggcatttat | tctccttgtg | gaggtgcggt | gtcccgggga | gctgggtgcta | ttgtgttag  | 540 |
| gaaggaggtc | tgtccgtccg | tccgtctgtc | cgcccgccct | ggcccccatt  | gggggcggaa | 600 |
| gaggggcacg | gcccagata  | aaatcccggc | ctattccggg | tggaatatg   | tacaaggcgg | 660 |
| cggggcacag | gcgggggtgg | ggcgggcgga | gcccggcgcc | gcagccccc   | cccgaaggcc | 720 |
| ccgcacctc  | ggccctact  | tgtagaatca | gtacaaaata | ggtgctacct  | aaacgttctt | 780 |
| tctacctgaa | aaaaaaaaaa | aaaaaaaaaa |            |             |            | 809 |

<210> 182  
 <211> 1396  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| <400> 182   |             |            |            |            |             |      |
| aagtctcgta  | tcgcgcccgg  | gagcgccgg  | agcccagcgg | ctggcgccag | atcaggctc   | 60   |
| ctggaagaac  | catgtccggc  | agctactggg | catgccaggc | acacactgct | gccaagagg   | 120  |
| agctgctggt  | tgaattatct  | gtgaatgttg | ggaagaggaa | tgccagagct | gccggctgaa  | 180  |
| aattacccaa  | ccaagagaaa  | tctgcaggat | ggactttctg | gtcctcttct | tggtctacct  | 240  |
| ggcttcgggtg | ctgatgggtc  | ttgttcttat | ctgcgtctgc | tcgaaaaccc | atagcttgaa  | 300  |
| aggcctggcc  | aggggaggag  | cacagatatt | ttcctgtata | attccagaat | gtcttcagag  | 360  |
| agccttgcac  | ggattgtctc  | attacctttt | ccatacgaga | aaccacacct | tcattgtcct  | 420  |
| gcacctgggtc | ttgcaaggga  | tggtttatac | tgagtacacc | tggaagta   | ttggctactg  | 480  |
| tcaggagctg  | gagttgtcct  | tgcatctacc | tcttctgccc | tatctgctgc | taggtgtaaa  | 540  |
| cctgtttttt  | ttcaccctga  | cttgtggaac | caatcctggc | attataacaa | aagcaaatga  | 600  |
| attattattt  | cttcatgttt  | atgaatttga | tgaagtgatg | tttccaaaga | acgtgagggtg | 660  |
| ctctacttgt  | gatttaaggga | aaccagctcg | atccaagcac | tgcatgtgtg | gtaactgggtg | 720  |
| tgtgcaccgt  | ttcgaccatc  | actgtgtttg | ggtgaacaac | tgcatcgggg | cctggaacat  | 780  |
| caggtacttc  | ctcatctacg  | tcttgacctt | gaaggcctcg | gctgccaccg | tcgccattgt  | 840  |
| gagcaccact  | tttctgggtc  | actgtgtggt | gatgtcagat | ttaccagg   | agacttacat  | 900  |
| cgatgacctt  | ggacacctcc  | atgttatgga | cacggtcttt | cttattcagt | acctgttctt  | 960  |
| gactttttcca | cggattgtct  | tcattgtggg | ctttgtcgtg | gttctgagct | tcctcctggg  | 1020 |
| tggttacctg  | ttgtttgtcc  | tgtatctgtg | ggccaccaac | cagactacta | acgagtggta  | 1080 |
| cagaggtgac  | tgggcctggg  | gccagcggtg | tccccttgtg | gcctggcctc | cgtcagcaga  | 1140 |
| gccccaaagt  | caccggaaca  | ttcactccca | tgggcttcgg | agcaaccttc | aagagatctt  | 1200 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tctacctgcc | tttccatgtc | atgagaggaa | gaaacaagaa | tgacaagtgt | atgactgcct | 1260 |
| ttgagctgta | gttcccgttt | atttacacat | gtggatc    | gttttccaaa | aaaaaaaaaa | 1320 |
| aaaaaaaaaa | aaaaaaaaaa | aaaactcgag | ggggggcccc | gtaccaatt  | cgccctggag | 1380 |
| ttcaagtaga | catcaa     |            |            |            |            | 1396 |

<210> 183  
 <211> 1886  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| <400> 183   |             |             |            |             |            |      |
| ggcacgagcg  | gcacgaggga  | aaatagagag  | caacttaatt | atgttaaggt  | tgactcaaac | 60   |
| tttttttttc  | atttcacaga  | cacttctaga  | ttggttctta | gcagcagctc  | ttgctcttcc | 120  |
| taattttgtg  | tccccattag  | catctaattt  | caagagcagg | caaattctcat | ctgttcccat | 180  |
| ccagcccagc  | cagggaacct  | ccagagttgc  | tttgcaagta | tggtgtggat  | cctgcagaat | 240  |
| gaggatgagc  | tcttccacga  | tccacattct  | tgccctttta | aaaataaagc  | gggtaggcag | 300  |
| cgggggtggc  | gtgtgggggt  | tgtggggcaa  | gagctagagc | gttcctcctc  | agtgagtttg | 360  |
| atgaaggag   | aatgtaaaac  | ttggctgaac  | ttagccctcc | aggaaaggg   | agccagaatg | 420  |
| ttgtattaat  | ttagtgtatg  | cttcaaaagg  | gtgtgggtga | ggaggagtct  | cattcagaat | 480  |
| gagaagctga  | tcccagctcc  | caggaaatcg  | acacagttgc | tggtgtgtag  | tggtcagcac | 540  |
| tagccgagtc  | cctatttgta  | gcttcatgct  | gttttttata | ctgttgtgat  | gtaatgtaca | 600  |
| tctgtgttca  | cccaagctgc  | ctatgcaatg  | tttctataa  | agctcagttt  | ttaaacacag | 660  |
| tctcttacag  | ataaaaacaac | agaaccagtg  | ccagaaagca | gccttccctt  | acatgggcac | 720  |
| ttctgccaag  | catatgagtt  | cattgccttg  | aagatcaaag | tcaaagagaa  | atggagaggg | 780  |
| tggtgaaatg  | atcagcgaaa  | attaaatgaa  | aatatattct | tattggaagc  | tgatgctcta | 840  |
| ttatcaataa  | aggaccata   | gcaaagatac  | atagaggagt | gatttttcaa  | gcagtcaaga | 900  |
| gcagaactac  | gaaggttttg  | agatggtgta  | gctgccaaag | aagtcacccc  | tggtgtgtcc | 960  |
| ccatctcagt  | gagcctgagt  | tgaatgtttc  | ccaatgtcat | atcccacagg  | gggatactta | 1020 |
| gtgcccacag  | catgtgatcg  | gtagctgata  | aggaagcatt | ggaccagaat  | gtcatggaag | 1080 |
| aaacaaaagc  | ccacttatct  | tccgcggcaa  | tatgtttatg | aacatgtgaa  | tcattgttca | 1140 |
| tataactgtc  | tcaaataactt | ggctgaaaag  | tagactgttt | ggtgttaagt  | ttcgacttat | 1200 |
| tttcgaggga  | ggatgggata  | tggttatata  | ccatatgaag | gattttgtga  | ataaagatt  | 1260 |
| tcaaaatatt  | ttgggaatag  | tagttcggca  | tttatttttt | ttcccagtc   | catttcatga | 1320 |
| gcaacaattt  | tatgttttaag | gtagtatctg  | actaacctac | tgatgctgtc  | tattcattcc | 1380 |
| attagcatac  | ttatgccatg  | ggtaaaagca  | atccatctag | aactctttca  | accatttttt | 1440 |
| agtttgtctt  | tgcacactct  | agatagcatt  | tctgaaatca | tctgcaggaa  | cagagttcct | 1500 |
| gaaaagagca  | atggtctaga  | gcaggctttc  | tcagacttca | gtgtgcacca  | gagtcaccca | 1560 |
| ggatcttgtt  | aaaatgctga  | ttctgaggcc  | aggcgcggtg | gctcacgcct  | gtaatcccag | 1620 |
| cacttttagga | ggctgaggcg  | ggcggtatcac | ggggtcagga | gagcgagacc  | tcctgggcta | 1680 |
| acagcatgag  | accctgtctc  | tactaaaaat  | acgaaaaatt | agccaggcat  | ggtggcaggc | 1740 |
| acctgtagtc  | ccagctactc  | aggaggctga  | ggcaggagaa | tggtgtgaac  | ctgggaggtg | 1800 |
| gagcttgtag  | tgagccgaga  | tcgcgccact  | gcactccagc | ctgggggaca  | gagcgagact | 1860 |
| ccacctccaa  | aaaaaaaaaa  | aaaaaa      |            |             |            | 1886 |

<210> 184  
 <211> 2971  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 184  |            |            |            |             |            |     |
| gacgtgagga | gcgttccatt | tggccagtgg | tgggcggttg | ccacagctgg  | tttagggccc | 60  |
| cgaccactgg | ggccccttgt | caggaggaga | cagcctccc  | gcccggggagg | acaagtcgc  | 120 |
| tgccaccttt | ggctgcgcac | gtgattccct | gggaacgtcc | gtttcctgcc  | gtcagctgcc | 180 |
| ggccgagttg | ggtctccgtg | gttcaggccg | gctccccctt | cctggtctcc  | cttctcccgc | 240 |
| tgggcgggtt | tatcgggagg | agattgtctt | ccagggctag | caattggact  | tttgatgatg | 300 |
| tttgaccag  | cggcaggaat | agcaggcaac | gtgatttcaa | agctgggctc  | agcctctggt | 360 |
| tcttctctcg | tgtaatcgca | aaaccattt  | tggagcagga | attccaatca  | tgtctgtgat | 420 |

```

ggtggtgaga aagaaggtga cacggaaatg ggagaaactc ccaggcagga acaccttttg 480
ctgtgatggc cgcgtcatga tggcccggca aaagggcatt ttctactga cccttttcc 540
catcctgggg acatgtacac tcttcttcgc ctttgagtgc cgctacctgg ctgttcagct 600
gtctcctgcc atccctgtat ttgctgccat gctcttcctt ttctccatgg ctacactgtt 660
gaggaccagc ttcagtgacc ctggagtgat tcctcgggcg ctaccagatg aagcagcttt 720
catagaaatg gagatagaag ctaccaatgg tgcggtgccc cagggccagc gaccaccgcc 780
tcgtatcaag aatttccaga taaacaacca gattgtgaaa ctgaaatact gttacacatg 840
caagatcttc cggcctcccc gggcctccca ttgcagcatc tgtgacaact gtgtggagcg 900
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aactgttcta gaagtcctca tttgcttctt tacactctgg tccgtcgtgg gactgactgg 1140
atttcatact ttccctcgtg ctctcaacca gacaaccaat gaagacatca aaggatcatg 1200
gacagggaag aatcgcgctc agaatcccta cagccatggc aatattgtga agaactgctg 1260
tgaagtgtg tgtggccctt tgccccccag tgtgctggat cgaaggggta ttttgccact 1320
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gagcccagcc cccacagaac acctgaactc aaatgagatg ccggaggaca gcagcactcc 1440
cgaagagatg ccacctccag agcccccaga gccaccacag gaggcagctg aagctgagaa 1500
gtagcctatc tatggaagag acttttgttt gtgtttaatt agggctatga gagatttcag 1560
gtgagaagtt aaacctgaga cagagagcaa gtaagctgtc ccttttaact gtttttcttt 1620
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tttgagactg gctcaaactc tcccagctg ctgcacgtgc tgagtccaga ggcagtcaca 1920
gagacctctg gccaggggat cctaactggg ttcttggggg cttcaggact gaagaggagg 1980
gagagtggg tcagaagatt ctctggcca ccaagtgcga gcattgcccc caaatccttt 2040
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cctgaatgca caaatgggaa accaaggcac agagaggctc tcctctctc tcctctcccc 2520
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tgagggaag cccagcadt ctgccctctc gggtaactca ccctaaggcc tcggcccacc 2640
tctggctatg gtaaccacac tgggggcttc ctccaagccc cgctcttcca gcacttccac 2700
cggcagagtc ccagagccac ttacccctgg ggggtgggctg tggccccag tcagctctgc 2760
tcaggacctg ctctatttca gggagaaga tttatgtatt atatgtgt atatttccta 2820
gagcacctgt gttttcctct ttctaagcca gggtcctgtc tggatgactt atgcggtggg 2880
ggagtgtaaa ccggaacttt tcatctattt gaaggcgatt aaactgtgtc taatgcaaaa 2940
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 2971

```

```

<210> 185
<211> 1337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1337)..(1337)
<223> n equals a,t,g, or c

```

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<400> 185
cttcgggttc tccgggcagc tgccactgct gtagcttctg ccacctgcca cgaccggggc 60
tctccctggc gtttggtcac ctctgcttca ttctccaccg cgctatggc cctcttggg 120

```

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gccagcgtgg  | cgggcctggc  | ggctcccggg  | tggtagagaga | gcggtccggg  | aacgatgaag  | 180  |
| gcctcgagct  | gctgctgctg  | tctcagccac  | ctcttggtctt | ccgtcctcct  | cctgctgttg  | 240  |
| ctgcctgaac  | taagcgggyc  | cctggmagtc  | ctgctgcagg  | cagccgaggc  | cgcgccaggt  | 300  |
| cttgggcctc  | ctgaccctag  | accacggaca  | ttaccgccgc  | tgccaccggg  | ccctaccctt  | 360  |
| gcccagcagc  | cgggccgtgg  | tctggctgaa  | gctgcggggc  | cgcggggctc  | cgagggaggg  | 420  |
| aatggcagca  | accctgtggc  | cgggcttgag  | acggacgatc  | acggagggaa  | ggccggggaa  | 480  |
| ggctcgggtg  | gtggcggcct  | tgtgtgagc   | cccaacctg   | gcgacaagcc  | catgacccag  | 540  |
| cgggccctga  | ccgtgttgat  | ggtgggtgagc | ggcgcgggtg  | tgggtgtactt | cgtggtcagg  | 600  |
| acggtcagga  | tgagaagaag  | aaaccgaaa   | actaggagat  | atggagtttt  | ggacactaac  | 660  |
| atagaaaata  | tggaattgac  | accttttagaa | caggatgatg  | aggatgatga  | caacacgttg  | 720  |
| tttgatgcca  | atcatcctcg  | aagataagaa  | tgtgcctttt  | gatgaaagaa  | ctttatcttt  | 780  |
| ctacaatgaa  | gagtgggaatt | tctatgttta  | aggaataaga  | agccactata  | tcaatgttgg  | 840  |
| gggggtattt  | aagttacata  | tatttttaaca | acctttaatt  | tgtgtgtgca  | ataaataccg  | 900  |
| tatcctttta  | ttatatcttt  | atatgtatag  | agtactctr   | ttaatgggct  | cagagatgtt  | 960  |
| ggggataaag  | tatactgtaa  | taatttatct  | gtttgaaaat  | tactataaaa  | cggtgttttc  | 1020 |
| tgatcggttt  | ttgtttcctg  | cttaccatat  | gattgtaaat  | tgttttatgt  | attaatcagt  | 1080 |
| taatgctaata | tatttttgct  | gatgtcatat  | gttaaagagc  | tataaattcc  | aacaaccaac  | 1140 |
| tgggtgtgtaa | aaataattta  | aaatttcctt  | tactgaaagg  | tatttcccat  | ttttgtgggg  | 1200 |
| aaaagaagcg  | aaatttatta  | ctttgtgttg  | gggttttta   | aatattaaga  | aatgtctaag  | 1260 |
| ttattgtttg  | caaaacaata  | aatatgattt  | taaattctct  | taaaaaaaaa  | aaaaaaaaacc | 1320 |
| ccggggggggg | gccccggn    |             |             |             |             | 1337 |

<210> 186

<211> 1129

<212> DNA

<213> Homo sapiens

<400> 186

|            |             |             |            |            |            |      |
|------------|-------------|-------------|------------|------------|------------|------|
| gctgcttccc | aaggaccatg  | aaactcctgc  | tgtgtggtct | tcctatgctt | gtgctcctac | 60   |
| cccaagtgat | cccagcctat  | agtgggtgaaa | aaaaatgctg | gaacagatca | gggcactgca | 120  |
| ggaaacaatg | caaagatgga  | gaagcagtg   | aagatacatg | caaaaatctt | cgagcttgct | 180  |
| gcattccatc | caatgaagac  | cacaggcgag  | ttcctgcgac | atctcccaca | cccttgagtg | 240  |
| actcaacacc | aggaattatt  | gatgatattt  | taacagtaag | gttcacgaca | gactactttg | 300  |
| aagtaagcag | caagaaagat  | atgggtgaag  | agtctgaggc | gggaaggggg | actgagacct | 360  |
| ctcttccaaa | tgttcaccat  | agctcatgac  | ttcctctcgg | ctatcactca | cccctgtcct | 420  |
| cagagtgata | aactaagtca  | catacagata  | aagcactgaa | aacaccacag | tgacctccc  | 480  |
| acccccacc  | aatatgtaat  | tctattaata  | gaaacagctg | tgtaaagaag | tctaaattt  | 540  |
| tcactatttc | caatgataaa  | ctcttcagtg  | ctcttcttga | aatgtcacat | tatttcccaa | 600  |
| caagttatac | ctatttttag  | tattcttggt  | gctagtgcc  | tgcaaacctt | caatagctag | 660  |
| ttgctattcc | aacaacaatt  | tcttcagtga  | tcgttctgtc | ttctcaacag | ctgtctttca | 720  |
| tggcagcata | agtggctcatg | atcaaaaattc | taaaacttgc | atctgtgaga | gtagctacta | 780  |
| tgacactaaa | agcttttttt  | ctagaacagg  | agacacttca | ggtgaagcat | tcatttctct | 840  |
| actaactatg | gccttgaggc  | caggttttat  | ctctcactgt | aggaaattgg | ccgccccagg | 900  |
| tgtgagctat | gaagactcct  | ttttgcccc   | gtggcttttg | ggttgaaatg | tgtcgaaaa  | 960  |
| gcttttatgg | ctctgtagac  | ccatcttttt  | gaccaagcct | tgatcacaca | tggacatcca | 1020 |
| agggtaatca | tggaccccc   | attgtgggtg  | aaaggatgga | tcatttatct | acctgattac | 1080 |
| tgagagcttt | atttgtctcc  | ctctgatagc  | aaaaaaaaa  | aaaaaaaaa  |            | 1129 |

<210> 187

<211> 799

<212> DNA

<213> Homo sapiens

<400> 187

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ggagacggtg | ggtgaccaga | gagtcctgtc | tatcctagga | ggagaacatt | cagcccaaatt | 60  |
| cccagcccca | tcatgcacag | atcagagcca | tttctgaaaa | tgtcgctgct | gattctgctt  | 120 |
| ttcctgggat | tggcagaagc | ctgtactcct | cgtgaagtca | acttgctgaa | gggatcata   | 180 |

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| ggtctcatga  | gcagactgtc  | accggatgag | atcctaggct | tgctgagcct | ccaagtactg  | 240 |
| catgaagaaa  | caagtggctg  | caaggaggaa | gttaaaccct | tctcaggcac | caccccatcc  | 300 |
| aggaaaccac  | tccccaagag  | gaagaacacg | tggaacttcc | tgaaatgcgc | ctacatgggtg | 360 |
| atgacctacc  | tcttctgtatc | ctacaacaaa | ggggactggg | tcactttttc | ctcccaagtg  | 420 |
| ttactgccac  | tactgtaact  | tggaactgga | catcagggat | gatccctgct | gttcttttcta | 480 |
| gtgagcctgc  | tccatctcag  | cttagccttc | acaaggcctc | catctcccag | gcatttctaac | 540 |
| ctctgaagaa  | agctctctgt  | cccctggact | gcctgtgtgg | agggtatga  | actgggtcct  | 600 |
| ttaagggaatg | gcacctgggt  | gcccagaggc | atggccagaa | ggtgtctgtg | ggggccatgc  | 660 |
| cttaggggga  | tgcacccagg  | gcggctgaga | gagcaactgc | aggagtttcc | cctaaaatct  | 720 |
| ctctccaga   | tcgttctcga  | actttcccca | ctacttccat | aataaaatgt | atacttgttg  | 780 |
| aaaaaaaaaa  | aaaaaaaaaa  |            |            |            |             | 799 |

<210> 188

<211> 1689

<212> DNA

<213> Homo sapiens

<400> 188

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| actatagaag | tcgcctgcag | taccggctcc  | ggaattaagg | gtcgacccac  | gcgtccgggc  | 60   |
| taattgtttg | gtcagaaatt | cctaaggcca  | cagctttggg | gggtgtgtgt  | agatgtacat  | 120  |
| ggtgggtggg | ttataaatat | tgggacttaa  | ggcagcttgt | tctatgtatt  | tatctttgct  | 180  |
| cttgggtgac | ttagggaatg | attttatttg  | atttaacctt | ctttctgttt  | gccccgagaa  | 240  |
| tactcgccag | tggcgcttgc | agttgtagca  | tttaccctaa | gataactttg  | cctacgaaat  | 300  |
| atctcgcttt | tattattttc | acatcattct  | agtatatgga | ctttggaaac  | aaaagacatt  | 360  |
| gttctattta | tagcattctt | tttttttttt  | tagtagcggg | atttccattt  | acaaaatata  | 420  |
| gtaactcttg | attactgaaa | atgtcaaadc  | ctagaaaacg | tagcatgcct  | atacatgatg  | 480  |
| ttaacatcat | tctcgaacag | ttgttggccg  | aagattcatt | tgatgaatcc  | aatttttttg  | 540  |
| aaatagacaa | ttctgatgtt | ctcttttagaa | ataactcagt | ttttatcttt  | tttcacattg  | 600  |
| aaaatcagtt | agattttgct | aagcctcaaa  | gagaatgttt | atgtaaatta  | gcgtcggcaa  | 660  |
| tttttttttt | tctaaacagg | aaaagggtta  | aatgaagggt | gataaaatgg  | atgttcaatt  | 720  |
| gtctttctga | aagtgaagtg | cttgaaggga  | tgaataaata | ttttcttaat  | atattcaaaa  | 780  |
| aagtgcattg | ctttctgtga | tggaagttaa  | gacctaaatg | tctggaagtt  | gtaaccctca  | 840  |
| acacagcttt | tcctgatttg | ctgcaaaggc  | acatagctga | ttatagaagt  | gaagacggca  | 900  |
| aggacgggga | gtccaacaaa | ggaaaccctg  | ttgaggatt  | tggaacttt   | catgcttcag  | 960  |
| atgaaattca | ggcatgtgag | catcactgca  | gaatgtgggt | catcattgcc  | atcatgagta  | 1020 |
| atcacttgct | gctcctactt | ctgagaccaa  | gactcttttg | tcataattct  | tagcaatagg  | 1080 |
| acgggtaaag | actggattta | attgctgttc  | agagtataaa | aactcaattg  | attccaacat  | 1140 |
| atctgaatgt | gcagtaaagt | cttaaaagtc  | aaccgttaat | cattaagtct  | tttgccctcta | 1200 |
| aagtcttttg | cctctgaaga | agtttattac  | atgagttgat | tttcataatt  | tcatttttggt | 1260 |
| ggggttttcc | tggtgttggg | caagggtggg  | tcacaggaca | tgggactagt  | aagcatttta  | 1320 |
| ctgtttacta | tattttgtct | tttataaaa   | gtatctccca | aaatgtgatt  | agaaggctac  | 1380 |
| caagcctgta | tttggacatt | taattgtgtg  | ctttatataa | tgtaaactact | aacagtattt  | 1440 |
| ggactgcctg | ttcatttctg | gagacaaaaa  | tgaaaatctg | tcagttcaag  | ttcttgggta  | 1500 |
| acatcaagtc | attagaattt | atctaaagct  | tatcatgatt | tgataagaca  | tccattgcat  | 1560 |
| gcagctgttt | tagctcagtg | caaaacactg  | aaattgtgat | tcttagactg  | tttctgagac  | 1620 |
| atttggtatg | aaataaatgt | ataaatgtta  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1680 |
| aggcgggcc  |            |             |            |             |             | 1689 |

<210> 189

<211> 420

<212> DNA

<213> Homo sapiens

<400> 189

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| ggcacgagag | agagcagagc  | tatacatagc | tatccaggtc | taacttcacg | aagaatagaa | 60  |
| tggtttcttt | tcattttcaa  | tgtacatcat | actttgtcag | actttttttt | cagttgcagc | 120 |
| tcttcgttgg | actgggtgata | gtattggctt | tattaatctc | tcatttctct | acttattcat | 180 |

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| tccacaaaca | tttgtagaag | gccaccaagc | tctagggaga | ggaaaatggt | tttataaatt  | 240 |
| agtgccttct | gggataaagg | aaatttataa | tctgtactac | ttaatagtag | ccactagcca  | 300 |
| catgtggttt | tcgaacaaga | tttccatcac | ctctccaacc | actttctcct | cattgggtcag | 360 |
| atctagaccc | cgagaaactg | ttøtttcat  | tgttttctcc | gccttctaca | aactgagata  | 420 |

<210> 190  
 <211> 1090  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (28)..(28)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (43)..(43)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (54)..(54)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (95)..(95)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (545)..(545)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (863)..(863)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 190  |            |            |            |            |            |     |
| cattgacntc | aatgggagtt | tgttttgnca | cccaaaatcc | aangggactt | tcnnaaattg | 60  |
| tcgtaaccaa | ctccccccca | ttgaccccaa | atggncggta | ggcgtgtac  | gggtgggagg | 120 |
| tctatataag | cagagctcgt | ttagtgaacc | gtcaagatcc | gcctggagac | gccatccacg | 180 |
| ctgttttgac | cctccataga | agacaccggg | accgatccag | cctccggact | ctagcctagg | 240 |
| cttttgcaaa | aagctattta | ggtgacacta | tagaaggtag | gmctgcaggt | accggtccgg | 300 |
| aattcccggg | tcgacccacg | cgtccgccag | cctggaggcc | cagacgtggc | gcagcgactc | 360 |
| ggagggttcg | ctccagcttg | cgcacatct  | gcggccgggt | cccgatgagc | ctcctgttgc | 420 |
| ctccgctggc | gctgctgctg | cttctcgcg  | cgcttggtgs | cccagccamr | gccgccactg | 480 |
| cctaccggcc | ggactggaac | cgtctgagcg | gcctaaccgc | cgcccgggta | gagacctgcg | 540 |
| ggggnatgac | agctgaaccg | cctaaaggag | agkgaaggct | ttcgtcacgc | aggacattcc | 600 |
| attctatcac | aamctggtga | tgaaacacct | ccctggggcc | gaccctgagc | tcgtgctgct | 660 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| gggccgccgc | tacgaggaac | tagagcgcat | cccactcagt | gaaatgaccc | gcgaagagat  | 720  |
| caatgcgcta | gtgcaggagc | tcggcttcta | ccgcaaggcg | gcgcccgcgc | cgcagggtgcc | 780  |
| ccccgagtac | gtgtggggcg | ccgcgaagcc | cccagaggaa | acttcggacc | acgctgacct  | 840  |
| gtaggtccgg | gggcgcggcg | ganctgggac | ctacctgcct | gagtcctgga | gacagaatga  | 900  |
| agcgctcagc | atcccgggaa | tacttctctt | gctagagcc  | gatgcccgtc | cccggggccag | 960  |
| cagggatggg | gttggggagg | ttctcccaac | cccactttct | tccttcccca | gctccactaa  | 1020 |
| attccctcct | gccttaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 1080 |
| aaaaaaaaaa |            |            |            |            |             | 109  |

<210> 191  
 <211> 1676  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (798)..(798)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (927)..(927)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (944)..(944)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (974)..(974)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1035)..(1035)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1058)..(1058)  
 <223> n equals a,t,g, or c

|             |             |
|-------------|-------------|
| <400> 191   |             |
| acgagcagat  | tcccaagaag  |
| ttaccaacca  | ggagctgctg  |
| acatggcctg  | caagggcctg  |
| tcctcctgtt  | gctgctggtc  |
| gctccttcca  | ggcctccctt  |
| gccaacaagc  | gtgtgccaaag |
| agacactgcc  | gctctggggc  |
| cctgggctca  | caccaatgcc  |
| cgtggtttgg  | tgacagtctc  |
| ccgtgaatca  | gctactccgc  |
| tgctgccact  | gtggcacctc  |
| gaggcatgca  | gaggtgaggt  |
| gtacagaagt  | ctttgcaaga  |
| aggaagggtg  | gcagtaacaa  |
| ttgcagcagg  | ttcagggtcc  |
| gtcttcctgtg | ccatgacctc  |
| tgcttcgatc  | atctggcttc  |
| acagtctgca  | aggctacagc  |
| gcggcccagc  | ttgcagctgg  |
| ccactgtgcc  | tctcaccttg  |
| acagatccag  | ctccccgatt  |
| gcttttccac  | cagaatgtgc  |
| ggcccaggga  | gcactgccat  |
| cacagctcag  | tgaggctgtc  |



|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| cactggacct | ggctttgcct  | acaggacatt | acagtggctt  | tcttggactg  | ggcacttgcc | 780  |
| ctgatatccc | agcagtangc  | cctgccttcc | tgcactga    | tttctgcatg  | ggtagaccat | 840  |
| ccaagactgc | agcgggtaga  | aggtggcagt | tcttcatggg  | agtcttttta  | acttggtgcc | 900  |
| tgagttctct | cctaagcaag  | tggccanttg | cctccacctc  | agtncttcca  | tctttgggtg | 960  |
| ggggacaggg | gccnagcaag  | catctcagcc | tcctaccac   | aattccactg  | aacacttttc | 120  |
| tggccctact | gcacntggcc  | cccagcctcc | atccttgngc  | tggtagcctc  | tcacaactcc | 1080 |
| gtccttgccc | tttgccctcc  | acttccttcc | atctcatttc  | ttaaaccctaa | acagctcatc | 1140 |
| tctaaaaaga | tagaactccc  | agcaggtggc | ttctgtgttc  | ttctgacaaa  | tgattcctgc | 1200 |
| ttctccagac | tttagcagct  | cctgaccca  | ttcttgggtca | cagctctagc  | cacagcagaa | 1260 |
| ggaaaggggc | ttgcagaaga  | atatagcacc | gaattgggaa  | acagcagcct  | cacctccacc | 1320 |
| tgaagcctgg | gtgtggctgt  | cagtggacat | ggggagctgg  | atggaaatgc  | ctctcacttc | 1380 |
| aaaatgcccc | gcctgcccc   | aatgcctcta | agccctctcc  | tgtccctccc  | cttgtagtcc | 1440 |
| tactttcttc | aacttttccat | tccccatcat | gctgggggtc  | ttggtcacaa  | ggctcagctt | 1500 |
| ctctccactg | tccatccctc  | ctatcatctg | tagagcagag  | cacaggcagt  | tgtgtgcctt | 1560 |
| gggcccaggg | aaccttccat  | caacctgaga | caggactcag  | tatatgggtc  | ttgggtatgc | 1620 |
| cctaccaggt | ggaataaagg  | acacagattt | gatttctaaa  | aaaaaaaaaa  | aaaaaa     | 1676 |

<210> 192  
 <211> 1569  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (341)..(341)  
 <223> n equals a,t,g, or c

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 192   |             |             |             |             |             |      |
| gtattggcca  | ggctgggtctc | aaactcctga  | cctcgtgata  | cacccacctt  | ggcctccaa   | 60   |
| agtgcagaga  | ttacaggcat  | gagccactgc  | acctggcctc  | aagaaaaatt  | atatatcacg  | 120  |
| tggaatagga  | tagtagtctc  | tgcactgatt  | ttcgttgata  | atggctgttc  | ttcttatcac  | 180  |
| cattttgcta  | tttctttgtc  | tgggttatta  | caggggttatt | acagaaaatt  | ccagaaagac  | 240  |
| ccctgcctgt  | cgaatgttta  | cttcaagctt  | gagctcctgg  | tatattatga  | ggaaattata  | 300  |
| tgatacccca  | ggagagggtc  | tcctttccca  | tgccattgta  | naattcctaa  | agtaaaatta  | 360  |
| atttgccttc  | ttgtcaaaga  | aggagccaat  | gttgttttaa  | aatttttagct | tgagagatag  | 420  |
| gtggggaaga  | aattaaatag  | acaagtaatc  | mctattcaga  | agagaagggag | agtcattgt   | 480  |
| acgaggccca  | agatacttgc  | ccaaaaatat  | cgcagagaaa  | aactagtctt  | tggggtccta  | 540  |
| ttttttgagt  | ggaacatttg  | agttatttaa  | aattagaatt  | ttatttttgt  | cagattagaa  | 600  |
| tttctagggt  | atgtcatatg  | tgttttttaa  | ttgaaagctc  | ttaaaactcc  | tattgtagtt  | 660  |
| taatgtcatt  | atcatttaat  | ttacataaat  | ctgatttgga  | tctctatttt  | catcgtagac  | 720  |
| tgtgtagggg  | caatttttcc  | taaaggttct  | gtgacatagt  | gctacccttt  | ttttaaaacc  | 780  |
| tgtcttgccc  | aggcattatt  | gagtgcctcc  | tgggtgccagc | atgtgtattt  | cacgactgta  | 840  |
| tcaacaaatc  | atgatcatct  | tctctggcca  | ttgtgccctt  | tcagttcca   | aacttgttac  | 900  |
| ctctcagtc   | ttcctacaaa  | cttagaaaagt | ctaatatctt  | aatgtttact  | tatgtagcaa  | 960  |
| cctccctttc  | tcccatccct  | aaatcctctt  | gtaattaatt  | attttccttt  | ggaacttttt  | 1020 |
| aaatctacaa  | tttctttata  | atatggtaac  | caatattaat  | tttcttggtc  | tgcgccaaagt | 1080 |
| ttgattttat  | acaaattggt  | tccagtttgg  | gtcatgagca  | caaaaccagg  | tattttttaa  | 1140 |
| aatctatata  | acccttcaat  | gaggcagtat  | taattttatt  | aactcattaa  | ttcaaccaat  | 1200 |
| aattcttgat  | tgtttactgt  | gttagatatt  | gggtatccc   | caatacctga  | cagctgtgag  | 1260 |
| caaaaacaaat | gccctacaca  | catgaggtgt  | acagtcca    | agaaaagata  | aacaataagc  | 1320 |
| aaattaatag  | ataatatgat  | gtccaataag  | gacttcaaag  | gaaaataaag  | cagagtaaag  | 1380 |
| agccagagaa  | tgacagttag  | ctgtttttca  | catgagtcac  | cagaaaaggc  | ctcttttaaag | 1440 |
| aattgacatt  | tgaacagaaa  | aacgaatcaa  | ggcgctcaac  | tgtttattgc  | ttttattgct  | 1500 |
| taccatttga  | ccaagcaatt  | ctacacatag  | gattcaccct  | aaaaaaaaaa  | aaaaaaaaaa  | 1560 |
| aaactcgag   |             |             |             |             |             | 1569 |

<210> 193

<211> 1251  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 gcaccgtgga gctgcaggag atgccccttg tccaggagt gccactgctg aagcttgggg 60  
 tgaattacct tccgtccatc ttcatecgtg gggtaaat tgtgctgccg cccgtgttca 120  
 agctcattgc tccactggag ggctacactc ggagtcgcca gatcgttttt atcctgctca 180  
 ggaccgtgtt tcttcgcctc gcctccctgg tggctcgtct cttctctctc tggaaatcaga 240  
 tcacttgttg gggcgactcc gaggetgagg actgcaaaac ctgtggctac aattacaaac 300  
 aacttccgtg ctgggagact gtcctgggcc aggaaatgta caaacttctg ctctttgatc 360  
 tgtgactgtt cttggcagtc gcctgctca tccagtttcc tagaaagctc ctctgtggcc 420  
 tctgtcctgg ggcgtgggt cgtctggcg gggccaggga gttccagggtg cccgacgagg 480  
 tgtggtgggt catctacgag cagacgggtg tctgggtggg gagttttttc tgccctttac 540  
 tgccctgtct taacacgggc aagttcctgc tgccttttcta cctgaagaag cttaccctct 600  
 tctccacctg ctccccggct gccgcacct tccgggcctc cgcggcggaat tcttttttcc 660  
 ccttggtcct tctcctgggt ctggccatct ccagcgttcc cctgctttac agcatcttcc 720  
 tgatcccgcc ttctaagctt tgtggtccat tccgggggca gtcgtccatc tgggccaga 780  
 tccctgagtc tatttccagc ctccctgaga accccagaa ttctctcttc tctctggga 840  
 cccagctttt tgetgtgcc cttctgtga tctccagcat cctgatggcg tacactgttg 900  
 ctctggctaa ctctacgga cgcctcatct ctgagctcaa acgtcagaga sagacggagg 960  
 cgcagaataa agtcttctg gcacggcgct ctgtggcgct gacctccacc aaaccggctc 1020  
 tttgacccc gcagcccacg tcccgtttc agaccccagg cccattgtaa gcctaggta 1080  
 caacatctgt aaactaggag aactggagaa gactccacgc ccttccagct ttggtatctg 1140  
 gagatttcca gggcccctg ccgccacgtc cctgactctc ggggtgatctt ccttgtatca 1200  
 ataaatacag ccgaggttgc tgaraaaaaa aaaaaaaaaa aaaagtcgag c 1251

<210> 194  
 <211> 1345  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 tctacctctt gtccctcccc caacaccacc accacccttg ctccccctcc tcatgaccgc 60  
 ctggatcctc ctgcctgtca gcctgtcagc gttctccatc actggcatat ggactgtgta 120  
 tgccatggct gtgatgaacc accatgtatg ccctgtggag aactggctct acaacgatc 180  
 ctgcctcctt gacctgctg agcaaggggg toccaagacc tgctgcaccc tggacgatgt 240  
 cccctcctc atgtggcctg atctgcctcc tgcgtacgg gcagctcctg gagcagagtc 300  
 ggcaactctt gggttaacacc acggcaactca tcacaggctg caccaacgct gcgggcctct 360  
 tgggtggttg caactttcag gtggatcatg ccaggctctt gcaactacgtt ggagctggcg 420  
 tggccttccc tgcggggctg ctctttgttt gcctgcaact tgctctctcc taccaagggg 480  
 ccacggcccc gctggacctg gctgtggcct atctgcgaag tgtgctggct gtcctgcct 540  
 ttatcacctt ggtcctcagt ggagtcttct ttgtccatga gagttctcag tgcaacatg 600  
 gggcagccct gtgtgagtgg gtgtgtgtca tcgatatcct ctttttctat ggcaccttca 660  
 gctacgagtt tggggcagtc tcctcagaca cactggtggc tgcaactgcag cctacccttg 720  
 gccggggcct caagtcctcc gggagcagca gcacctccac ccacctcaac tgtgcccccg 780  
 agagcatcgc tatgatctaa ggtctgggga ggggtggctgg cccggcctcc acagacccc 840  
 accccatata ttctttccat ttattttgta ccaaaaaaaa ttttgagaaa gtattctgtt 900  
 gggatctggg ctctctcact tctggagaag tggccatccc atgccacct gtgcatgga 960  
 ggagtgggcc ctgccagctg ccacagctgc atgacctgct tccccccc acggtgtcgt 1020  
 tttgttttta aaggtaacct gtcctcactc accagccag cccttcaggt gccttctact 1080  
 cccagtgcc aagccagacc actggggttt cctgctgcag gaattggggg ctgggaacag 1140  
 cagaggggat agaagtctgg tggaggtgga gtgggcacgc cttagctacg gaaaggccca 1200  
 tttctgggcc cactgagctg cactgggatt ctctactctg cccctcactt cctttagggc 1260  
 aaataacaca gcagaaccac gtgggtattt tagtactttt ttttatatta aaagaattct 1320  
 aatttgcaaa aaaaaaaaaa aaaaaa 1345

<210> 195  
 <211> 1323  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1086)..(1087)  
 <223> n equals a,t,g, or c

<400> 195  
 gctgaagatg ggggtccctcg cacggcacgg tccatgtccc tcacgctggg aaagaatatg 60  
 cctcgccgga ggtcagcgtt gctgtggttc ctaagtttaa tgccctgaat ctgcttgcc 120  
 aaactcccag ctcatcatcc attccctcct taccagcctt gtcggaatca cccaatggga 180  
 aaggcagcct acctgtcact tcagcactgc ctgcactttt ggaaaatgga aagacaaatg 240  
 gggacccaga ttgtgaagcc tctgtcctcg cgctgaccct gagctgcctg ggaggagctt 300  
 agtcaggaga ccaaggccag gatggaggaa gaagctaca gcaagggatt ccaagaaggt 360  
 ytaaagaaga ccaaagaact tcaagacctg aaggaggagg aggaagaaca gaagagtga 420  
 agtcctgagg aacctgaaga ggtagaagaa actgaggaag aggaaaaggg cccaagaagc 480  
 agcaaaactg aagaattggt ccatttctta caagtcattg atcccaaact gtgtcagcac 540  
 tggcaagtga tctggatgat ggctgcagtg atgctggtct tgactgttgt gctggggctc 600  
 tacaattcct ataactcttg tgcagagcag gctgatgggc cccttgaag atccacttgc 660  
 tcggcagccc cagggaactcc tgggtggagct caggactcca gcatgagcag cctacagagc 720  
 agtaggaaac ctacaccta gccagtccc tgctctgaga cactcagact accacccttt 780  
 cccaagtat aacgtcaggc ccaagtgtgg acacactgcc gccatccca tcaggtcatg 840  
 aggaaggggt cttttaacac tcggcacttc tgtgggagct attcatacac agtgacttga 900  
 tgttcttga ggatcaacaa aactgccctg ggaaagcatc cagtggatga agaagtcacc 960  
 ttcaccaagg aactctattg gaaggggaagg tctcctgccc ctactcagg tggctgggga 1020  
 gaactaaaac accttactg gtggttgggg gtaaggagcg gggcacgggg gaggaggagg 1080  
 tagggnnacg taaaaaactt actctctttt ttctctcttg taattgggta tcaggaagaa 1140  
 tttgcttaat gactaacacc ctaagcatca gacctggaat ttggagttgc aaagtgacta 1200  
 tcttcccatt tcccatctca ttttcaataa cttcagcctc ccattctttc ctttggaatg 1260  
 agagtttctt tttacagaag taggaaaggc ttctcagaaa aaaaaaaaaa aaaaaaaact 1320  
 cga 1323

<210> 196  
 <211> 669  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 cagcctcatt ttctcagtcg ccagagggtc taggatagga tttctaaact ggaatcatcc 60  
 ttaatcacct tgaagatccc ttaagaggca tttgactggt gctgccgtct gtgtcctcaa 120  
 agcaatgctg gtggcatcgt cctggtaca catgcagagc taatacccaa actaaaaact 180  
 gggtaactgg ccctgaagtg cttcccaatc agtaagccac agggaaatgt ttgattttta 240  
 tgttctgttg gatttttggt tgcttggcat atctaaagggt gcctttactt ttcttttttt 300  
 tttttttct ttctgctttg tttttagaga cttgttctaa catggaaaac aagtcagaa 360  
 gactctcctc tgactgttac ctttgcccca agccacccca aacttttatg ctcatgtttt 420  
 attaaagcag gtgctccctg gaatctcttg gacatttttg aggcatttga agcagaatat 480  
 agagtggctc catctccttc cttaatcttc ctgggtggtg ggatgttcca cttgtatcat 540  
 agattttttt attacagata tgctccactg tttttaaatt tgaacttggt cgcaaatgtg 600  
 cagattcaat gttcttggtta cagattgaat aaatttttat tttgaarawr aaaaaaaaaa 660  
 aaactcag 669

<210> 197  
 <211> 1271  
 <212> DNA

<213> Homo sapiens

<400> 197

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| ggggctgggc  | cctgctcagg | tggctctctc | cttgcagggg | ccggcgatgc | tctgcaggct | 60   |
| gtgctggctg  | gtctcgtaca | gcttggctgt | gctgttgctc | ggctgcctgc | tcttcctgag | 120  |
| gaaggcggcc  | aagcccgcag | agaccccacg | gccaccagc  | ctttctgggg | ctcccccaac | 180  |
| accccgtcac  | agccggtgtc | cacccaacca | cacagtgtct | agcgcctctc | tgtccctgcc | 240  |
| tagccgtcac  | cgtctcttct | tgacctatcg | tactgcccga | aatttctcta | tcttgctgga | 300  |
| gccttcaggc  | tgttccaagg | ataccttctt | gctcctggcc | atcaagtcac | agcctggtca | 360  |
| cgtggagcga  | cgtgcggcta | tccgcagcac | gtggggcagg | tgggggga   | ggctagggcc | 420  |
| ggcactgaag  | ctgggtgttc | tcctaggggt | ggcaggatcc | gctccccag  | cccagctgct | 480  |
| ggcctatgag  | agtagggagt | ttgatgacat | cctccagtgg | gacttcactg | aggacttctt | 540  |
| caacctgacg  | ctcaaggagc | tgacactgca | gcgctgggtg | gtggctgcct | gccccaggc  | 600  |
| ccatttcatg  | ctaaaggag  | atgacgatgt | ctttgtccac | gtccccaacg | tgttagagtt | 660  |
| cctggatggc  | tgggaccag  | cccaggacct | cctggtggga | gatgtcatcc | gccaagccct | 720  |
| gccccacagg  | aacactaagg | tcaaatactt | catcccaccc | tcaatgtaca | gggccaccca | 780  |
| ctaccacccc  | tatgctgggt | ggggaggata | tgatcatgtc | agccacag   | tgcggcgcc  | 840  |
| ccaggctatc  | atggaagatg | ctgaactctt | ccccattgat | gatgtctttg | tgggtatgtg | 900  |
| cctgaggagg  | ctggggctga | gccctatgca | ccatgctggc | ttcaagacat | ttggaatccg | 960  |
| gcggccccctg | gaccccttag | accctgcct  | gtataggggg | ctcctgctgg | ttcacccgct | 1020 |
| cagccccctc  | gagatgtgga | ccatgtgggc | actggtgaca | gatgaggggc | tcaagtgtgc | 1080 |
| agctggcccc  | ataccccagc | gctgaagggt | gggttgggca | acagcctgag | agtggactca | 1140 |
| gtgttgattc  | tctatcgtga | tgcgaaattg | atgcctgctg | ctctacagaa | aatgccaact | 1200 |
| tggtttttta  | actcctctca | ccctgttagc | tctgattaa  | aacactgcaa | ccccaaaaaa | 1260 |
| aaaaaaaaaa  | a          |            |            |            |            | 1271 |

<210> 198

<211> 933

<212> DNA

<213> Homo sapiens

<400> 198

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ggcacgaggt  | gcttccctcc | cagatggctg  | tgtatgtatt | ttcttttctt | ttttgctttc | 60  |
| tcttcttttc  | cgttgttttg | ttattgtttt  | aactataata | agagggccag | aggcagtcaa | 120 |
| gcccgtggcca | ggtcctggcg | gcccattggg  | gttctgggga | gggggagggg | ggaagtcagt | 180 |
| gggggtcaga  | ggtggagggt | gaagaatgag  | aaagtggggg | agttaggctt | agctcaggaa | 240 |
| ccatgtgtcc  | ctgcccactc | ccctccttcc  | ttgcccctc  | ctacctccct | gcctctacat | 300 |
| ggcttctctc  | cacccctccc | agagtcctac  | gggacaggac | cctgctccag | tggtatccaa | 360 |
| ctcctccctg  | cccactcttc | ctcatggggc  | acctcacctc | ccactttcga | tgtctcgcc  | 420 |
| cccgtggcca  | ccctgcaatt | agctttccaa  | gccccctccc | gtggccgtcc | cctcccaaga | 480 |
| cctctcacc   | atgtagcaat | ccctacatgg  | ctgcctgtca | tgtccctact | ctctaagccc | 540 |
| tccctgccac  | tgttcctccc | tccccgacat  | gctgasacca | agtgggtgga | accacccctc | 600 |
| agccccagcc  | tgccctgtgc | agarttcagc  | tktgtgttga | atgaggggga | garggacaag | 660 |
| tgagggcgga  | gagagagttc | aggaggaggc  | agatgcgca  | gggagcagag | agtgaggagg | 720 |
| ggagataacc  | aacagataga | cagaaaacgt  | tgtacggaaa | agttgttttt | tcttattttt | 780 |
| tttccgggag  | aaccgcgtta | cacagctctg  | tttgtaattt | ttttcttcat | gctaaaatca | 840 |
| cacggcctat  | ttgttgatgt | aagttgcctg  | aattccgtgg | tatgctatct | tcttttttaa | 900 |
| aaacaaaagc  | aaaaaaaaaa | aaaaaaaaact | cga        |            |            | 933 |

<210> 199

<211> 470

<212> DNA

<213> Homo sapiens

<400> 199

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgaggg | aaatcttgca | cataggcagg | taaataatta | taaagtgtga | agtggattat | 60  |
| tctgagctgc | ttaattttta | agggaaagag | aatttaaac  | tcttcaacct | tttatgctgc | 120 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| taataagagt | tccacaatca | atagaaatct | atcttggcag | gcacttcctt | ttacccacta | 180 |
| gaattttttc | ccttgggagt | tcacgatccc | cagaaactgt | gatatgagcc | attcaatatt | 240 |
| gatgtactaa | aacagtgtc  | tgcttaaata | cagtttttca | acatacagtc | ttggaagaaa | 300 |
| caaaatccaa | aataaattcc | aatagtccag | taacaggaat | aaagacaact | attgcaaatt | 360 |
| aaatcttaca | gacttatatg | aaagctgttg | ttaacagctg | ggtactagtt | atttgaaaag | 420 |
| tttctcgtgc | cgaattcgat | atcaagctta | tcgataccgt | cgacctcgta |            | 470 |

<210> 200  
 <211> 1020  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 200  |             |            |             |             |             |      |
| cgncacgagg | tgaagttcaa  | cccaatgcaa | ctttccttca  | gtctttccgt  | gaaagcgcct  | 60   |
| gtgaaaaatg | aggtcatatt  | tccctttctc | agtctgcccc  | ttcccgtttt  | gctctccggt  | 120  |
| tttcttcttt | gtcttcacag  | atgtttacct | atgttttttc  | tttgtttttg  | ctgttggaag  | 180  |
| acatctaagt | gacccctttc  | ccattctctt | tttcaactcat | aaatgtcctg  | atgttttagca | 240  |
| aaaggcagtt | ctctttgcta  | cttgagcttg | taaactgttg  | ttaaatgagt  | aacccaaaagg | 300  |
| aaagtccttg | cgaagttggg  | taccatttca | gatacaagaa  | ccgtttatct  | tcccacgctg  | 360  |
| acgaattttg | cgagtggagt  | gattattttt | ccttggtgtt  | gtaattttatt | taagtaaatt  | 420  |
| ccttgtttgt | ttttcttttc  | agtacaccag | gggtatata   | tttcaatatg  | acatgtacct  | 480  |
| ttggttcagg | gctaagttag  | agtctgaaaa | atgaagcctg  | taggattcat  | ggcagtgac   | 540  |
| taattgtgat | tcattcttact | gattgtaggg | caagaagagt  | ggactaactc  | aagacacaag  | 600  |
| gcaccttcag | cgaggacagc  | aaagggcgtc | tacagagacc  | agccatatgg  | cagatactga  | 660  |
| ttgtactgtc | tgatgttggt  | aaatagccaa | tctccaccag  | tcctgtatac  | tgttcaaagt  | 720  |
| aatttttttc | tatgaacaat  | acttttttaa | ataaatcaaa  | atgcttaaaa  | tctgaatgga  | 780  |
| tggaacttaa | aactactttg  | ttgaaacatc | aacctgggca  | gaaaaaaaaa  | aaaaaaagac  | 840  |
| atgtaaaatt | ttgttatctc  | cagtctgtat | atgaaaaaat  | aggtcatcaa  | aaggaaaaaa  | 900  |
| aataactttg | attaactagt  | gttaaacaaa | aaatagggtt  | actaaatctc  | ggccgaatt   | 960  |
| cgatatcaag | cttatcgata  | ccgtcgacct | cgtagggggg  | gcccgtacct  | aatcgccctg  | 1020 |

<210> 201  
 <211> 1881  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (70)..(70)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (126)..(126)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1860)..(1860)  
 <223> n equals a,t,g, or c

<400> 201

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| atcttttcctt | ttccttaaca  | ataccttttg  | ccattttttt | ccagttcact | atgtttgtat | 60   |
| actaactttt  | cttcagcctt  | ttaatgcgaa  | gcaactagta | gagatgctt  | tcaggatctg | 120  |
| acagcncctg  | tagtagagcg  | aagtattttat | taatacagaa | ttaaccttmg | cccctttaaa | 180  |
| gtcaagtctg  | tctaatactaa | ctagcgcctc  | gctttgcctt | ctcacaatgc | tactagacca | 240  |
| tcatgctcac  | ccttctcttc  | cagatccact  | tcctcatgat | actgtcttct | aactgggctt | 300  |
| acttaaagga  | tgcgagcaaa  | atgcaggctt  | accaggatat | caaagcaaa  | gaagaacagg | 360  |
| aactgcaaga  | tatccagtct  | cggtcaaaa   | aacaactcaa | ttcttacaca | taaagtgttg | 420  |
| ccagagtgtt  | tcggccgacg  | tatttacagc  | tctgacaaa  | catcagacag | ctgctctgca | 480  |
| gtacagatgt  | gtatcccacc  | aaactaatgt  | agatgtaaa  | acacttcact | gtctgtctca | 540  |
| agctgctggg  | atgtatctct  | aggaaaacct  | tccagtgggt | aaatcttttt | ctttagaaca | 600  |
| aatattggag  | gtttcatgtt  | agccatttta  | aaaggcaaca | ctttgacaaa | atgatcgttc | 660  |
| atactttggg  | aatttgtggc  | atgttcacat  | ttattgctag | ggcaattcta | ccaagacact | 720  |
| caatggaata  | tgtcacactc  | cttaataggg  | acctgtgact | ccttaataag | gacctgtgac | 780  |
| atgccacaga  | tcaagggata  | agaccgtaaa  | ttcacatata | tgccatctgt | cctcaagtgt | 840  |
| tatctacata  | ggaaataaaa  | tggaattgat  | gtaaagtcc  | atctctgaca | gctgacattt | 900  |
| attaaacttt  | ggatcaaaga  | taatgtgatt  | ctatgattg  | atttctcaaa | ctagcttttc | 960  |
| cctcccaagt  | ccaggaccca  | ttaatttcct  | gagccaatca | gaaatatatt | tttcaataat | 1020 |
| gctaaaatta  | gctacaattc  | tgctgacctt  | actattaaag | aatctggatg | ctggactcac | 1080 |
| tgacaagctt  | tccagaagca  | atctttataac | agatttcatt | ttaacaaaat | actgatccaa | 1140 |
| ttttcattat  | tcttgagaaa  | tgtcagcttt  | gccttaatga | gtatttgctt | taaatttcta | 1200 |
| agaatttata  | tcataactag  | agacccaaat  | atctttcaca | gaattttgtt | ccataaatgt | 1260 |
| ttttcttaat  | tattaagaag  | tgttacctta  | ttaaaatgac | caccattcta | aaccattttt | 1320 |
| cagtggctctg | gatacgaagt  | ttacagtttc  | ataccaacta | tctaaaacct | aattgcaa   | 1380 |
| tgaccacaga  | cctctaacct  | cctactttta  | tagacttgaa | tacttaagta | atttaaat   | 1440 |
| gggttggtat  | ttcatttttt  | tcttatctaa  | atcttagttt | cctggaataa | taaagtgtga | 1500 |
| tgttcagcaa  | gagaactgct  | tgagtttaag  | ccattttcaa | aagaaacttg | ccttttatt  | 1560 |
| tattgtgttc  | cagaacatta  | agtgactgta  | ggtactgggt | attagtgatg | gtaaactttg | 1620 |
| tgttgctctt  | tatgaaatga  | tccatataac  | tggtgggtgc | atcagtgctt | ttcaaagggg | 1680 |
| ctgcttacta  | taggggttaac | tatgtatatt  | cattgttaag | agttaacttg | tggtttggct | 1740 |
| gttycctgga  | ttttataaca  | tacatgtgca  | gaaatgtatt | caaataaa   | gaagcatacc | 1800 |
| tttatcaaga  | tgctattaaa  | attgaacatc  | aagtataaaa | aaaaaaaaaa | aaaaaaattn | 1860 |
| ctgcggccga  | caagggaatt  | c           |            |            |            | 1881 |

<210> 202

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 202

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| acgcgtccgg | cgcccggggc | ccgatgagcc | tcctgttgcc | tccgctggcg | ctgctgctgc | 60   |
| ttctcgccgc | gcttgtggcc | ccagccacag | ccgcactgc  | ctaccggccg | gactggaacc | 120  |
| gtctgagcgg | cctaaccgcg | gcccgggtag | agacctgcgg | gggatgacag | ctgaaccgcc | 180  |
| taaaggaggt | gagtttgaag | gaagaggtcc | ctagctctgt | tccccctgag | cctcttgggg | 240  |
| agtgggcaac | atggtcccaa | tgactggggc | ggggaggggg | gaaggatccc | taggctgaga | 300  |
| gtctagccta | ggctgggagt | ctagcctgca | cctgacttgc | tttatgacct | cactgggctt | 360  |
| cagtgtctcg | tctgtacctc | gagtagactg | aggtcatggt | ctctgatgct | tggttcctc  | 420  |
| cccaggtgaa | ggctttcgtc | acgcaggaca | ttccattcta | gtatccttct | gttctggggg | 480  |
| aggggaaatg | ggatgggcac | ctgggagaat | ctccacgtaa | cttcagaaa  | gggtggcaga | 540  |
| tggttttcaa | ctgacaagtt | gaattgattg | ctagtggctc | ccagaggatt | ctgaggtggt | 600  |
| ctccatgttg | ggtgggcaag | agagattgac | tagtgatgac | tgccacagaa | tgagaggag  | 660  |
| ggccctttac | ttctttgaac | cctaattttc | tcacgtataa | gcggagaccc | tgcccctcc  | 720  |
| cgggcacaga | gtaagctctg | agcaaaggag | gcaatgctgt | tcccatcagt | aaggctgcgg | 780  |
| aaaccaccac | ctccctctgc | ccaccacccc | gctccttaac | accactcca  | gtcacaacct | 840  |
| gggatgaaa  | cacctccctg | gggcccaccc | tgagctcgtg | ctgctgggcc | gccgtacga  | 900  |
| ggaactagag | gtgaggccgt | gggaggtggg | ctggggcgca | ggccagaggc | gaggccagc  | 960  |
| ctgctgaccc | cgcctctcct | ccgcctcagc | gcacccact  | cagtgaatg  | acccgcgaag | 1020 |
| agatcaatgc | gctagtgcag | gagctcggct | tctaccgcaa | ggcggcgccc | gacgcgcagg | 1080 |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| tgccccccga | gtacgtgtgg | gcgccccgca | agccccccaga | ggaaacttcg | gaccacgctg  | 1140 |
| acctgtaggt | ccggggggcg | ggcggagctg | ggacctacct  | gcctgagtc  | tgagagacaga | 1200 |
| atgaagcgct | cagcatcccc | ggaatacttc | tcttgctgag  | agccgatgcc | cgccccggg   | 1260 |
| ccagcaggga | tgggggttgg | gagggttctc | caacccccact | ttcttccttc | cccagctcca  | 1320 |
| ctaaattccc | tcctgcctta | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | 1380 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa |             |            |             | 1408 |

<210> 203  
 <211> 2407  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 203  |             |             |             |             |             |      |
| ggcacgagtc | cagaggtctt  | caacaggaag  | atgccagctg  | gcaccactgc  | actgtgatgg  | 60   |
| gggccctctc | ctctgctgac  | tctgccgttt  | ctccaggcct  | ccgctcagtg  | atgagaccaa  | 120  |
| gagatcggag | acaagcatgg  | tgctgctgct  | tctgctgctt  | ctccagaaaa  | tccctgggac  | 180  |
| acctttgttc | cagcctgggt  | tcctgggctg  | ggctcaggaa  | agctgccaaa  | ttcagtccta  | 240  |
| tggtgggtcc | aagctgcccc  | tgtgctgttt  | ctgtcaagcc  | aggtgtggac  | attccaagtt  | 300  |
| catatgcgtg | aacaaaagaa  | aagaggaacc  | cagtggatgt  | aacagaaccg  | actccagttg  | 360  |
| aatgtttaga | tttttgctaa  | actgttttct  | ttttcccttt  | tttgctgtgg  | tttgcatcca  | 420  |
| cggcagtagt | tagccagggt  | gtggggaacg  | agagtgcact  | gcatgatagc  | gttctggtga  | 480  |
| gctgggaagg | accaccact   | gccactgagg  | attgttttgg  | aagaaaggaa  | tattttttatc | 540  |
| ttggggacca | gctaagtctc  | tgcatgtagt  | tgaattcca   | aatggttggt  | ttatcattgg  | 600  |
| tttggtttac | caaaaaaaag  | gcagggaaaa  | aaaaaaaaaa  | caaccgtatg  | agcgcatggg  | 660  |
| cttgtctgcc | gcaggcacag  | aagggtagaa  | agccacagca  | gggggcagtc  | cagcagactc  | 720  |
| tgactcaact | ttctaggcac  | ctagcagaga  | aagataagat  | caaaagggtg  | ttggtttttc  | 780  |
| ttttaatttt | tattgtagtt  | tttttgggtg  | ggtgggggaa  | gtaaaactaga | ctgaagcgat  | 840  |
| ggattttttt | ttttcttttt  | tttctttagt  | gtttttccct  | ttgttcttga  | acacttttgc  | 900  |
| cctgcagcct | cagttttgaa  | ttcttttagc  | aacttggtat  | agagggggccc | atatgtcaga  | 960  |
| agctcccagc | acctcctact  | tgggagaaam  | gtgagccatc  | tgctggtcag  | gaagtcctcc  | 1020 |
| agagaggcag | cttttcccac  | aatggtggca  | ggaaactttg  | gggaaagcag  | gaatggtgtc  | 1080 |
| cactgctgcg | gaggaaactgc | cttcagagaa  | ggtggggctg  | gaaaagggtt  | agaagcctcc  | 1140 |
| tagctgggat | tgtctttgtt  | tcacctttct  | ttaaattaga  | attacagaag  | cccctgcccc  | 1200 |
| gtgaacagat | aacaattggt  | cttatgctcc  | tccctttccc  | ccattttttc  | ttttgctgtt  | 1260 |
| ttgttttttg | tttttgtttt  | ttttgtttgt  | ttttttgaga  | cagagtcatg  | ctctgtcacc  | 1320 |
| cgggctggag | tgcatgtggt  | cgatctcagc  | tcactgtaac  | ctccgcctcc  | cgggttcaag  | 1380 |
| caattatttg | cctcagcctc  | ccgagtagct  | gggattatag  | gcacccgcca  | ccatgtctgg  | 1440 |
| cttttagtag | agacgggggt  | tcaccatctt  | ggccaggctg  | gtcttggaac  | tcctgacctc  | 1500 |
| gtgagccacc | acgcccagcc  | tccttttgctg | tttcattgct  | gacagtgttc  | aacaatatgc  | 1560 |
| cccatcttta | tatatcctaa  | gaaacactaa  | tcctaggtta  | ttgctagcca  | aaaatttttt  | 1620 |
| gtcctgagta | gtgtcactgg  | gccaaaagat  | agatcaggac  | gacagccttt  | agttttcctg  | 1680 |
| aaatcaccag | gtcaggcaca  | aggagaaaaag | gttcctggat  | actgactaac  | ttgggtgggt  | 1740 |
| ctagccagga | gaaagacagt  | aacatgtgtt  | ctgtactttc  | tggaagatc   | cctgaagcca  | 1800 |
| tcacagaggc | tccccaadt   | ctgagtcgcc  | catctgttgc  | tgtgggagtg  | tgaacggatc  | 1860 |
| gctgaaggag | agggagcttt  | gctctctcta  | ggtgggcaag  | tttcctgggc  | tctctgtgtt  | 1920 |
| gcctccctct | ggcttcttcc  | tcccgtgccc  | tctccccgtg  | tgccccaggg  | ggatcaggga  | 1980 |
| tcctcaccct | cctgaggccc  | agtggggaag  | aatgaacatg  | gcttcataca  | ggttaactga  | 2040 |
| tgctgccatt | tgcccagcct  | cttccatccc  | agccctgtca  | gtgagcccag  | gtctggtgca  | 2100 |
| actgctgcag | gatgcctgta  | gtagggaact  | ctggaagtgt  | attgggctga  | ggtgggattt  | 2160 |
| tccctcccca | cagtgcactg  | agcaatggag  | ggtggtgagg  | gagccatgct  | gctgaattct  | 2220 |
| ggttggcatt | tcccatatt   | gtaaaatggg  | gtgttgggta  | gggcagactc  | tgcttgggtt  | 2280 |
| tgggtgtaag | ataaacctgg  | aggagaagca  | cagttgtccc  | attgaattat  | ttgagcaaaa  | 2340 |
| actactgtaa | ataacttttt  | tgtcttttgt  | caaataaaaat | ttttttttgt  | tttttttaaaa | 2400 |
| aaaaaaa    |             |             |             |             |             | 2407 |

<210> 204  
 <211> 795

<212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (791)..(791)  
 <223> n equals a,t,g, or c

<400> 204  
 ggcacagtgc agcatctacc taatccaggt gatctttggt gctgtggacc tgcctgccaa 60  
 gcttgtgggc ttccttgta tcaactccct gggtcgccgg cctgcccaga tggctgcaact 120  
 gctgctggca ggcactctga tcctgtctca tggggtgata ccccaggacc agtccattgt 180  
 ccgaacctct cttgctgtgc tggggaaggg ttgtctggct gcctccttca actgcatctt 240  
 cctgtatact gggaactgta tcccacaatg atccggcagacaggcatggg aatgggcagc 300  
 accatggccc gagtgggcag catcgtgagc ccaactggta gcatgactgc cgagctctac 360  
 ccctccatgc ctctcttcat ctacggtgct gttcctgtgg ccgccagcgc tgtcactgtc 420  
 ctctgccag agaccctggg ccagccactg ccagacacgg tgcaggacct ggagagcagg 480  
 aaagggaaac agacgcgaca gcaacaagag caccagaagt atatggtccc actgcaggcc 540  
 tcagcacaag agaagaatgg actctgagga ctgagaaggg gccttacaga accctaaagg 600  
 gagggaaagg cctacaggtc tccggccacc cacacaagga ggaggaagag gaaatggtga 660  
 cccaagtgtg ggggttggg ttcaggaaag catctccca ggggtccacc tccctttata 720  
 aacccacca gaaccacatc attaaaagg ttgactgcgm aaaaaaaaaa aaaaaaaaaa 780  
 aactcgaggg ngggc 795

<210> 205  
 <211> 1169  
 <212> DNA  
 <213> Homo sapiens

<400> 205  
 ggaatgtgag tgcaaatttg aatttccatg tacacatgtc cccgtgtgca catatctgtc 60  
 tgtatgtgct agtgtttcta tgtaatgtga ctagatgtaa atgtgttagg gcattcacaa 120  
 cctgggacac agagaaagtg aaatatTTTA tggcacactg gagtaaactg aagaggggta 180  
 ggggtactag agttgagtga aaaggaattt ctttatttt cctcatatta tacaattatg 240  
 ggaagaaaat taaaatgcag aatttttaggg gagttattaa atattgaatt tgtgtacaac 300  
 tttcaaatga aatcttttca gttttttatg acacacttga gctcacttct agaaacatgt 360  
 cttagtctgt tttgtgctgc tctaacagaa tacttgagac tgggtaattt ttaacaagca 420  
 gagatttctt tcttacagtt ctggaggcta ggaagtccaa gggtgagggg catgcatcta 480  
 gcaagggcct ctttctgctg tcatcccata gtgaagggca gaaaggcaag agaacacgct 540  
 tttgcatgag agagagaaag agagagaaga gaagggaagg gaagagaaaag aagagaagag 600  
 aagagaagag aagagaagaa aagggagca aactcatcta tttatcagga acccttctta 660  
 tgatagaaac ccaactcccat gaaaacagga ttaatctggt tatgaggaca gagtcctcat 720  
 tacctcatca sttcttaaag gtctcacttc tcagtactgc tgcattgggg attaggtttc 780  
 caacacatga acttcggagg acacattcaa gcogtagcat tctyccttga ctcccmaaT 840  
 ccatgtcctt ctcatgtcta aaatagatta atyccatccc aatwgcccca aagtcttgac 900  
 tcgttccagc accaactcaa aattccaaag tccagagtc catttgaatc agacaggaga 960  
 gactccaggt gcaattcatc ctgaggcaaa tttctctcca gatgttagcc tatgaaaata 1020  
 gcaaattact ttcttccaaa ataatgggt gggacaggca taggatagac attcccattc 1080  
 caaaaggag aaataagcaa gaagaaaggg gtaactggtc ccaagtaagt ccaaaatcca 1140  
 acagaaaaaa aaaaaaaaaa ggcggccgc 1169

<210> 206  
 <211> 1088  
 <212> DNA  
 <213> Homo sapiens

<400> 206



|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| ggcacgagct | aagccaaccg | caactgaagga | gtggggagaa | gagcatatgc | caggagcctc | 60   |
| ctgcctcaaa | gtgctcccct | aagtcttctt  | cctcctgtgc | tgacctcagg | gtggtctgac | 120  |
| ccttccctcg | gtgtggggga | tgtggccctc  | tcaggtgccc | ctacttgctt | tctgcttctt | 180  |
| tctggtgaag | tccacctcca | acattaacct  | gcccacccca | cccccgatc  | ccctggagaa | 240  |
| ttccagcttt | gtcgtatctc | agagaggga   | tctaattgtt | tttggggggc | aaaagaaagc | 300  |
| aacgttttag | tatcacctct | acttggaccg  | catgcctttt | tatagccaaa | tttctgtgta | 360  |
| tttcgtaaat | ggatttcgcg | ttaatggata  | tttatgtaat | aactagactt | ctagattat  | 420  |
| tgtgagaagg | gtcaggttgg | aaggggtgta  | ggaagagggg | tgaggggtag | tttttttctg | 480  |
| ttctagtttt | tttttttttt | ttgtcatctc  | tgaggtggac | cttgtcacct | gtggttattg | 540  |
| gggccaaggc | ggactcagct | cccggggaga  | agggcctctc | tgccatttcg | gtcccaaggt | 600  |
| gagctgacac | aggcgttcct | tttgggactg  | tggaagcatc | agatgccagc | actgactcag | 660  |
| gaacagcaag | tcagggcaga | gaggaggagg  | gaggctgtca | ggatggaaat | acctggactt | 720  |
| ttctttgtct | ccctcgcaaa | ctggggtctt  | ctctaccgaa | cttcccagga | tttcatctca | 780  |
| ccatatctgt | gtgccgcccc | cagcaccccc  | caccacctc  | tggggggg   | gtgagcgtgt | 840  |
| gtcttcattg | cctctctccc | cttggcgtct  | gatgaccaca | gcaaagcact | gggaatttct | 900  |
| actcttcatt | cctcatcctg | cagcctcggg  | ttcgcattct | ctctttcttt | tcctctttcc | 960  |
| ctctttccct | gggattgact | ctgagtggaa  | taccttggca | catccactag | gatctactgt | 1020 |
| ctgcactgtt | ttctttgcat | gactttatac  | gcagtaagta | tgttgaaaac | aaaaaaaaaa | 1080 |
| aaaaaaaaaa |            |             |            |            |            | 1088 |

<210> 207  
 <211> 2067  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| <400> 207   |             |             |            |             |            |      |
| aattcggcac  | gaggaaaaac  | aaaagttttt  | taaaacaata | aaagttaca   | gtcaataatg | 60   |
| tgtttgtcgg  | caagaagccc  | tctgttaata  | atggtotaaa | caaataagac  | attgtttttc | 120  |
| tccaataaag  | aaatccagag  | gcaggcagta  | gctggctttg | attcagcctc  | tgactgtcac | 180  |
| tgtcagggcc  | ccaggcccca  | tgagcctttc  | gtctttcctg | catgttggct  | tatcttctca | 240  |
| tgcttgtgac  | ttcctggttg  | caacacggct  | gctgcaacac | cagacatctt  | gcctgtcttc | 300  |
| aaggcaggaa  | ggagggggaa  | actatcgctt  | accagctatt | tttcttacct  | tagctcctcc | 360  |
| atgtcttggg  | tcaaaagcat  | ctctttgaac  | ctctccctca | ggcataccct  | gaaatgctgt | 420  |
| ggacttttaac | cttttttctg  | ttgcaaagg   | cgctcacatc | tcctgggttg  | tttggctctc | 480  |
| tcttccttgg  | ctctagtaac  | acagcagtct  | gttgcttctt | aggacaactt  | ataatgggac | 540  |
| ccaaagggga  | aagaggattt  | cccgggcctc  | caggaagatg | tctttgtgga  | cccactatga | 600  |
| atgtgaataa  | cccttcctac  | ggggaatctg  | tgtatggg   | cagttccccg  | cgagttcctg | 660  |
| tggttaaggct | ttctgggaga  | agtctggggt  | ggttatccgt | gaggacctct  | cacctgatcc | 720  |
| ttatggggct  | ttgtaaaatc  | ctttcagtaa  | aactaacttt | ttttcacgac  | tctgagtaca | 780  |
| ccctcattat  | aggaaaattg  | aaaatatgag  | aaaatcaaga | ggaaaaccaa  | attgtccatt | 840  |
| tgattgtgag  | tccatttttg  | ggtattttct  | ttgtctatt  | aaaatctaac  | ttttatatgg | 900  |
| ttgagattat  | attgtataaa  | aatgtacttt  | tggccgggca | tgggtggctta | tgctgtaat  | 960  |
| cccagcactt  | tgggaggcca  | aggtgggttg  | attataaggt | caggagtctg  | agatcagcct | 1020 |
| ggccgataca  | gtgaaacccc  | atctctacta  | aaaaatatat | ttaaaaaatt  | agccggggcg | 1080 |
| ggtggtgcac  | gcctgttgct  | tcagctactt  | gggaggctga | ggtgggagaa  | tcgcttgaac | 1140 |
| ccaggaggcg  | gagattgcag  | tgagctgaga  | tagcaccact | gcactccagc  | ctgggcaaca | 1200 |
| gagcgagact  | ccgtctcaaa  | aaaagttata  | ctttgktatc | ttagttgaaa  | tcctgccatg | 1260 |
| tttccacact  | ctataaataa  | cattttaaac  | tttttattag | ggaaaatttc  | aaatacatat | 1320 |
| aaaagcagaa  | caaatagtgt  | aatgaacccc  | tgtgtaccct | tcacccaact  | ttaataatga | 1380 |
| tcaactcatg  | gogagcctgt  | gtccttggtt  | tctctttatg | cctactcact  | cctgcccatt | 1440 |
| ctctgttgta  | ttattttgaa  | gtaaaccttg  | gacatctggt | catcataatc  | atccatctag | 1500 |
| tgtggctgtg  | ctacaattta  | cttaaccagt  | gttgggtgtt | aaccaacctt  | ttgcttattg | 1560 |
| gccaccccca  | agcttttttac | taatgtaaat  | aatgctgtaa | agaatatctt  | tgagtaggat | 1620 |
| aatttttaaga | atcacttcca  | gatgtcaaat  | tacttgacta | tatgacattg  | ccttttaact | 1680 |
| taagtcttgg  | gaacgtttta  | aatatttaaa  | aatgttaaat | ccgaggccgg  | gcgcgggtgg | 1740 |
| tcattgcctgt | aatcccagaa  | ctttggggagg | ccgaggtggg | tggatcacct  | tgaggtcagg | 1800 |
| agctcgcaac  | cagcctggcc  | aacatggcga  | aaccttatct | ctactaaaaa  | tacaaaagtt | 1860 |

|            |            |            |            |            |              |      |
|------------|------------|------------|------------|------------|--------------|------|
| agccaggcat | tgtggtgcac | acctgtaatc | ccacctactc | gagaggctga | ggcaggagaa   | 1920 |
| ttgcttgaac | ccgggaggca | gagggttcaa | tgagccgaga | tcacgctact | tcactccagc   | 1980 |
| ctgggcaacc | gcgtgagact | ccatctcaaa | aacaaaagaa | aaaaaaaaaw | aaaaaaaaaccg | 2040 |
| gcacgagggg | gggcccgtac | ccaatcg    |            |            |              | 2067 |

<210> 208  
 <211> 2213  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |             |              |             |      |
|------------|------------|-------------|-------------|--------------|-------------|------|
| <400> 208  |            |             |             |              |             |      |
| ggcacgagca | cgaatcagct | gcaggctctct | gttttgaaaa  | agcagagata   | cagaggcaga  | 60   |
| ggaaaagggg | ggactcctat | gtgacctgtt  | cttagagcaa  | gacaatcacc   | atctgaattc  | 120  |
| cagaagccct | gttcatgggt | ggggatattt  | tctcgactgc  | atggaatcag   | aaagagcaa   | 180  |
| aaggatggga | aatgcctgca | ttcccctgaa  | agaattgct   | tatttcctat   | gtctcttatc  | 240  |
| tgcgcttttg | ctgactgagg | ggaagaaacc  | agcgaagcca  | aatgcccctg   | ccgtgtgtac  | 300  |
| ttgtaccaa  | gataatgctt | tatgtgagaa  | tgccagatcc  | attccacgca   | ccgttcctcc  | 360  |
| tgatgttatc | tcattatct  | ttgtgagatc  | tggttttact  | gaaatctcag   | aaggggagttt | 420  |
| tttattcacg | ccatcgctgc | agctcttgtt  | attcacatcg  | aactcctttg   | atgtgatcag  | 480  |
| tgatgatgct | tttattgggt | ttccacatct  | agagtattta  | ttcatagaaa   | acaacaacat  | 540  |
| caagtcaatt | tcaagacata | ctttccgggg  | actaaagtca  | ttaattcacttg | gagccttgc   | 600  |
| aaacaacaat | ctccagacac | tcccaaaaga  | tattttcaaa  | ggcctggatt   | ctttaacaaa  | 660  |
| tgtggacctg | aggggtaatt | catttaattg  | tgactgtaaa  | ctgaaatggc   | tagtggaatg  | 720  |
| gcttggccac | accaatgcaa | ctgttgaaga  | catctactgc  | gaaggccccc   | cagaatacaa  | 780  |
| gaagcgcaaa | atcaatagtc | tctcctcgaa  | ggatttcgat  | tgcatcatta   | cagaatttgc  | 840  |
| aaagtctcaa | gacctgcctt | atcaatcatt  | gtccatagac  | actttttctt   | atttgaatga  | 900  |
| tgagtatgta | gtcatcgctc | agcctttttac | tgaaaaatgc  | attttccttg   | aatgggacca  | 960  |
| tgtggaaaag | accttccgga | attatgacaa  | cattacaggc  | acatcactg    | tagtatgcaa  | 1020 |
| gcctatagtc | attgaaactc | agctctatgt  | tattgtggcc  | cagctgtttg   | gtggctctca  | 1080 |
| catctataag | cgagacagtt | ttgcaaataa  | attcataaaa  | atccaggata   | ttgaaattct  | 1140 |
| caaaatccga | aaacccaatg | acattgaaac  | attcaagatt  | gaaaacaact   | ggtactttgt  | 1200 |
| tgttgctgac | agttcaaaag | ctggtttttac | taccattttac | aaatggaacg   | gaaacggatt  | 1260 |
| ctactcccat | caatccttac | acgcgtggta  | cagggacact  | gatgtggaat   | atctagaaat  | 1320 |
| agtcagaaca | cctcagacac | tcagaacgcc  | tcattttaatt | ctgtctagta   | gttcccagcg  | 1380 |
| tcctgtaatt | tatcagtggg | acaaagcaac  | acaattattc  | actaaccaaa   | ctgacattcc  | 1440 |
| taacatggag | gatgtgtacg | cagtgaagca  | cttctcagtg  | aaaggggacg   | tgtaacatttg | 1500 |
| cttgacaaga | ttcattgggt | attccaaagt  | catgaaatgg  | ggaggctcct   | cgttccagga  | 1560 |
| tattcagagg | atgccatcgc | gaggatccat  | ggtgttccag  | cctcttcaaa   | taaataatta  | 1620 |
| ccaatatgca | attcttggaa | gtgattactc  | ctttactcaa  | gtgtataact   | gggatgcaga  | 1680 |
| gaaagccaaa | tttgtgaaat | ttcaggaatt  | aaatgttcag  | gcaccaagat   | cattcacaca  | 1740 |
| tgtgtccatt | aataagcgta | attttctttt  | tgcttccagt  | tttaagggaa   | atacacagat  | 1800 |
| ttacaaacat | gtcatagttg | acttaagcgc  | atgagacacc  | aaattctgtg   | gctgccatca  | 1860 |
| gaaattttct | acagtacatg | accgggatga  | actcaatgca  | tgatgactct   | tcttatcaca  | 1920 |
| cttgcaaatg | aatgcctttc | aaacattgag  | actgctagaa  | ccaagcacta   | ccagtatctc  | 1980 |
| catccttaac | tgtccagtc  | agtgatgtgg  | gaagttacct  | tttataagac   | aaaattttaat | 2040 |
| tgtgtaactg | ttctttgcag | tgaagatgtg  | taaataagcg  | tttaatggta   | tctgttactc  | 2100 |
| caaaaagaaa | tattaatatg | tacttttcca  | tttattttatt | catgtgtaca   | gaaacaactg  | 2160 |
| ccaaataaaa | tgtttacatt | ttctttcata  | aaaaaaaaaa  | aaaaaaaaaact | cga         | 2213 |

<210> 209  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 209   |            |             |            |            |            |     |
| gaaaaaaaaag | aaaaagccaa | aaaaaaaaaga | agaagaagta | ccactgctag | gatttgaacc | 60  |
| cagatctagc  | tgactcaaga | accatgccct  | atctctgtgt | ccatgttgtc | accacttaat | 120 |

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| cacttgtatt | ttcccttcag | gtttctctgt | atgctgtgtt | ctctcccaag | agtgggtcttc | 80  |
| caactcacc  | ctattaagga | agcttttcca | agccaggagc | ttacctttcc | gtgcacacat  | 240 |
| tgaatgatga | tcatttgtca | ttctgtcttg | ccttacaaaa | gaggaccagc | tccttgagga  | 300 |
| taggaacctt | gtccttatct | ccctgttccc | ctgtatgggg | gccagctcct | ggcagggtgca | 360 |
| tagtaataaa | tgagtgataa | acttgttga  | aagaccatgc | aggaaccaag | caactctttt  | 420 |
| cctctgcctc | aatgcagtta | gttcaagaac | ttactaagaa | aagagttgtt | ggccaggcac  | 480 |
| agtggcacag | gcctgtaatc | ccagcactgt | gggagaccaa | ggcaggcaaa | ttgcttgagc  | 540 |
| tcaggagttt | gagaccagcc | tggacaatat | ggcgaaaccc | catctctatg | aaaaattgag  | 600 |
| aaagtagcca | ggcatgggtg | catgcacctg | tggcccagc  | tactttggag | gctgagggtg  | 660 |
| gcgaatcact | ttagyccggg | gaggtcgagg | atgcagtgag | ctgagattgc | gccactgaac  | 720 |
| tccagcttgg | gcgacaaaat | gagaccctgt | ctcaaaaaaa | aaaaaaaaag | aaaaaaaaaa  | 780 |
| aaaaaaaaaa | ctcgta     |            |            |            |             | 796 |

<210> 210  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (434)..(434)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (528)..(528)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| ggcacgagta | aaaggtgcc  | tctatgaatc | agaaagtacg  | cccttaccag | acaccgaatc  | 60  |
| taccagctcc | tgacagaa   | agactaagat | acattccaag  | aagcagtttc | tttgagagaca | 120 |
| gaggcgtaac | tgtgcatatg | gacaagggtt | atattttctgt | tcaaagtggc | catccatattg | 180 |
| cttctaggct | tcctttgtct | ctggtatcaa | gtgtatgtat  | gtatgtatgt | atgtactttat | 240 |
| ttattttatt | atttattatt | ttctcttttt | tctctgccc   | atatgatctg | caagaaaagt  | 300 |
| gtcaagttta | taatgagctc | cccaaagcca | ccatctgggt  | agcctcacat | ctttttcatc  | 360 |
| ccctgtgcct | cttccctgct | tttgtcctac | tctagccaga  | ctcgtgcga  | agggggggcc  | 420 |
| ggtamccaat | tcgnccata  | gtgagtcgta | ttacaattca  | ctggccgctg | tttamaaagt  | 480 |
| cgtgactggg | gaaaacctgg | sggtacccaa | cttwaatcgc  | cttgaagnaa | at          | 532 |

<210> 211  
 <211> 1575  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| gtccattctt | ccggtggaga | tggctgcggc | cgtggcgggg  | atgctgcgag  | gggggtctcct | 60  |
| gccccaggcg | ggccggctgc | ctaccctcca | gactgtccgc  | tatggctcca  | aggctgttac  | 120 |
| ccgccaccgt | cgtgtgatgc | actttcagcg | gcagaagctg  | atggctgtga  | ctgaatatat  | 180 |
| ccccccgaaa | ccagccatcc | acctatcatg | cctgccatct  | cctcccgc    | ccccacagga  | 240 |
| ggagataggc | ctcatcaggc | ttctccgcgc | ggagatagca  | gcagttttcc  | aggacaaccg  | 300 |
| aatgatagcc | gtctgccaga | atgtggctct | gagtgcagag  | gacaagcttc  | ttatgcgaca  | 360 |
| ccagctgcgg | aaacacaaga | tcctgatgaa | grtcttcccc  | aaccagggtcc | tgaagccctt  | 420 |
| cctggaggat | tccaagtacc | aaaatctgct | gccccctttt  | gtgggggcaca | acatgctgct  | 480 |
| ggtcagtga  | gagcccaagg | tcaaggagat | ggtacggatc  | ttaaggactg  | tgccattcct  | 540 |
| gccgctgcta | ggtggctgca | ttgatgacac | catcctcagc  | aggcagggtc  | ttatcaacta  | 600 |
| cctcaagctc | cccagcctgc | ccctgggtgc | gggggagctt  | gaggaggcc   | tcacctgcct  | 660 |
| cacagcccag | acctactccc | tgtctcagca | ccagccccctc | cagctgacca  | ccctgttgga  | 720 |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| ccagtacatc | agagagcaac | gcgagaagga | ttctgtcatg  | tcggccaatg | ggaagccaga  | 780  |
| tcctgacact | gttccggact | cgtagccagc | ctgttttagcc | agccctgcgc | ataaatacac  | 840  |
| tctgcgttat | tggctgtgct | ctcctcaatg | ggacatgtgg  | aagaacttgg | ggtcggggag  | 900  |
| tgtgtttgtc | acttggtttt | cactagtaat | gatattgtca  | ggtatagggc | cacttgagag  | 960  |
| tgcagaggat | tccatttcag | atgtcagtc  | ccggcttcgt  | ccttagtttt | cccaacttgg  | 1020 |
| gacgtgatag | gagcaaagtc | tctccattct | ccagggtcaa  | ggcagagatc | ctgaaaagat  | 1080 |
| agggctattg | tcccctgcct | ccttggtcac | tgcctcttgc  | tgcacgggct | cctgagccca  | 1140 |
| cccccttggg | gcacaacctg | ccactgccac | agtagctcaa  | ccaagcagtt | gtgctgagaa  | 1200 |
| tggcacctgg | tgagagcctg | ctgtgtgcca | ggctttgtgc  | tgagtgtctg | acatgtatta  | 1260 |
| gttcctttac | tgctgaccac | attgtaccca | tttcacagag  | aaggagcaga | gaaattaagt  | 1320 |
| ggcttgctca | aggtcatgca | gttagtaagt | ggcagaacag  | ggacttgaac | caagccctct  | 1380 |
| gctctgaaga | ccgcgtcctg | aatttcttca | ctagagcttc  | ctcatcaggt | taccagaaag  | 1440 |
| tgggtcccat | ccaccatcca | ggtgtgcttg | gatgttagtt  | ctccaccctc | gaggtgtacg  | 1500 |
| ctgtgaaaag | tttgggagca | ctgctttata | ataaaatgaa  | atatattcta | maaaaaaaaaa | 1560 |
| aaaaaaaaaa | ykcg       |            |             |            |             | 1575 |

<210> 212  
 <211> 1839  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 212  |            |            |            |             |            |      |
| aattcggcac | gagtgcaggt | cgactctaga | ggatccccgc | taagaagcta  | gggctattgg | 60   |
| tcttcccata | cacacatcag | aactgaggca | ccatgcaagg | gggccagaga  | cctcatctcc | 120  |
| tcttgctgct | gttggctgtc | tgcctggggg | cccagagccg | caaccaagag  | gagcgtctgc | 180  |
| ttgcggacct | gatgcgaaac | tacgaccccc | acctgcggcc | ggctgagcgc  | gactcagatg | 240  |
| tggccaatgt | cagcctgaag | cttaccttga | ccaacctcat | ctccctgaat  | gaacgagagg | 300  |
| agccctcac  | aactaacgtc | tggatagaga | tgcaatgggt | cgactatcgc  | ctgcgctggg | 360  |
| acccaaaaga | ctacgaaggc | ctgtggatat | tgagggtgcc | atctactatg  | gtctggcggc | 420  |
| cagatatcgt | cctggagaac | aatgtggacg | gtgtcttcga | ggtggctctc  | tactgcaatg | 480  |
| tctctgtgtc | ccccgacggt | tgtatctact | ggctgcgcgc | tgccatcttc  | cgctcctcct | 540  |
| gctccatctc | tgtcacctac | ttccccttcg | attggcagaa | ctgttccttc  | atcttccaat | 600  |
| cccagactta | cagcaccagt | gagatcaact | tgcagctgag | ccaggargat  | gggcaagcca | 660  |
| ttgagtggat | cttcattgac | ccggaggctt | tcacagagaa | tgggragtgg  | sccatccggc | 720  |
| accgacctac | taaaatgctc | ctggactccg | tggctctctc | agagraggcg  | ggccaccaga | 780  |
| aggtggtgtt | ctacctgctt | atccagcgca | agccctctct | ctacgtcatc  | aacatctcg  | 840  |
| ccccctgtgt | gctcatctcc | tcagtgcgca | tcctcatcta | cttccttctc  | gctaaggcgg | 900  |
| gcgccagaa  | atgcacagtg | gccaccaacg | tgtcctggc  | ccagactgtc  | ttccttttcc | 960  |
| ttgtggctaa | gaaggtgcct | gagacctccc | aggcagtgcc | actcatcagc  | aagtacctga | 1020 |
| ccttcctcat | ggtggtgac  | atcctcatcg | tcgtgaactc | tgtggtcgtg  | ctcaatgtgt | 1080 |
| ccttgcggtc | ccccacaca  | cactccatgg | cccggtgggt | ccgcaagggt  | ttcctgaggc | 1140 |
| tcttgcccca | gctgttacgg | atgcatgtgc | gcccactagc | tccagctgct  | gtccaggatg | 1200 |
| cccggttccg | actccagaat | ggctcttctc | cagggtggcc | catcatggctc | gagaggaag  | 1260 |
| gggacctctg | tctgcctcga | agcgaactcc | tctttaggca | aaggcagcgc  | aatggattag | 1320 |
| tgcaggcagt | attggagaag | ctagagaatg | gtccagaagt | gaggcagagc  | caggagtctc | 1380 |
| gtggcagcct | gaagcaagcc | tccccagcca | tccaggcctg | tgtggatgcc  | tgtaacctca | 1440 |
| tggctcgtgc | ccgacgccag | cagagtcact | ttgacagtgg | gaacgaggag  | tggttgctgg | 1500 |
| tgggccgagt | gctggaccga | gtctgcttcc | tagccatgct | ctccctcttc  | atctgtggca | 1560 |
| ctgctggcat | cttcctcatg | gcccactaca | accaagtgcc | tgacctgccg  | ttccccggag | 1620 |
| acccccgccc | ctacctgcct | ttgccagact | gagccaacca | atcctcctg   | ggccctggag | 1680 |
| tcagctatga | ggccatgct  | gtttgtagag | ctgtatcccg | tgttgatgct  | gagtgtgctc | 1740 |
| ttggggaaat | acccaaggct | tcctgggaga | agatagagaa | ataaagagac  | agaggggaaa | 1800 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aactcgtag  |             |            | 1839 |

<210> 213  
 <211> 1103  
 <212> DNA

<213> Homo sapiens

<400> 213

|            |             |            |             |            |             |      |
|------------|-------------|------------|-------------|------------|-------------|------|
| gtcttaatga | gcaacagcaa  | cagcagtc   | cagttaagaa  | agagagaatt | aaatacagca  | 60   |
| gagatttcct | gttgaagctc  | tcaagtgttt | ccatctgcag  | aaaaaaacca | gactttctgc  | 120  |
| ctgatcatcc | cattgtactg  | caaaaaccag | aaaacaacca  | aaattttaag | tagcatttta  | 180  |
| agaacagatg | aattttaagtt | tggacatctg | caaatgaggt  | ggatctagca | acaataactg  | 240  |
| taatggactg | tgacaattca  | atttattctt | aattttgatg  | gttggctatt | tgacttctct  | 300  |
| aaaaatgaga | aagagctatt  | ttaaaatata | aagaattttc  | taatcagttt | cagctttgca  | 360  |
| ggaggtttcc | tgcataaatt  | gggaagtaac | actggaaagt  | aggaatttgg | ttagtgaagt  | 420  |
| gggaagactg | tatatattata | atttgcatac | tacttgcaat  | tttttgtttt | tcactacttg  | 480  |
| taataatgga | atggaaatgt  | aagctgtaaa | gactctcaaa  | tataaaatat | ttgctacagt  | 540  |
| gtatatatgg | tacataattg  | cttggtgctt | ttaaagtctc  | ttctgttggt | ctgcttccca  | 600  |
| ctgatttcat | accagctcat  | gaatggatca | ttacagctctc | tccagaggct | tagaatgatt  | 660  |
| cagaatgttc | aatgcatagt  | tctcaataaa | caggaggcag  | aatttttaat | gggtatttct  | 720  |
| tttcagatat | atgattggtc  | tctaggtttt | tgataataat  | atggtcttaa | attcataatt  | 780  |
| actagcagag | attgataatt  | tggaaacaat | ggtagtgaat  | gaaactgaag | ttgaaaaacg  | 840  |
| gctgctactt | atgtcactaa  | tcagaccata | tgaatagcag  | aagttagca  | atttcaaagt  | 900  |
| aaaactgata | tttttatttc  | caaaggaatt | tagacatttg  | aaaataattg | acatacatta  | 960  |
| agttttaatt | cgataatttc  | ttatatatgg | atgaacaatt  | tttgggttta | agcttttaatt | 1020 |
| tcctagaaat | tttatacatt  | aaatctcctg | caatttgta   | ctctggatgt | tactgtttaa  | 1080 |
| aaaaaaaaaa | aaaaaactcg  | tag        |             |            |             | 1103 |

<210> 214

<211> 1175

<212> DNA

<213> Homo sapiens

<400> 214

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| ggcacgagat  | tgaatgttcc | agataatccc | tttcccagtc | ctgcctgaca  | tctgggtagg | 60   |
| gggtttgtcc  | ctggaattct | gggacactgg | ctgggggttg | aggagagaag  | ccagtaccta | 120  |
| cctggctgca  | ggatgaagct | ggccagtggc | ttcttggttt | tgtggctcag  | ccttgggggt | 180  |
| ggcctggctc  | agagcgacac | gagccctgac | aggaggagt  | cctattcaga  | ctggggcctt | 240  |
| cggcacctcc  | ggggaagctt | tgaatccgtc | aatagctact | tcgattcttt  | tctggagctg | 300  |
| ctgggaggga  | agaatggagt | ctgtcagtac | aggtgccgat | atggaaaggc  | accaatgccc | 360  |
| agacctggct  | acaagcccca | agagcccaat | ggctgcggct | cctatttcct  | gggtctcaag | 420  |
| gtaccagaaa  | gtatggactt | gggcattcca | gcaatgacaa | agtgcctgca  | ccagctggat | 480  |
| gtctgttatg  | acacttgcgg | tgccaacaaa | tatcgctgtg | atgcaaaatt  | ccgatgggtg | 540  |
| ctccactcga  | tctgtctctg | ccttaagcgg | agtctgggct | ttgtctccaa  | agtggaagcc | 600  |
| tgtgattccc  | tggttgacac | tgtgtcaac  | accgtgtgga | ccttgggctg  | ccgccccctt | 660  |
| atgaatagtc  | agcgggcagc | ttgcatctgt | gcagaggagg | agaagggaaga | gttatgagga | 720  |
| agaagtgatt  | ccttcctggt | tttgagtgc  | accacagctg | tcagccttca  | agatgtcaag | 780  |
| tcttcgagtc  | agcgtgactc | attcgttctt | ccaacagttt | ggacaccaca  | aagcaggga  | 840  |
| aagggaacat  | ttttctacag | ctggaaagtg | agtcctatcc | tttgaggaaa  | tttgaaaaaa | 900  |
| gacatggagt  | ggtttgaaag | ctactcttca | tttaagactg | ctctccccaa  | ccaagacaca | 960  |
| tttgcttggg  | aattcagttc | ttagcttaaa | gactaaaatg | caagcaaacc  | ctgcaattcc | 1020 |
| tggacctgat  | agttatatcc | atgagtgaag | ttgtggggag | tccagccatt  | tgggaggcaa | 1080 |
| tgactttctg  | ctggcccatg | tttcagttgc | cagtaagctt | ctcacattta  | ataaagtgtg | 1140 |
| cttttttagaa | catttggaaa | aaaaaaaaaa | aaaaa      |             |            | 1175 |

<210> 215

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (106)..(106)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (110)..(110)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (422)..(422)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (427)..(427)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (548)..(548)  
 <223> n equals a,t,g, or c

<400> 215  
 ggcacgagcc agggcccagc atcagaagcc ggccggttttg atagacgtgt tccctctgcg 60  
 tccttgacgc cttccatctg tgctacctcc caggaagcg aagcgnacgn agtccccttc 120  
 ggatggcact gggagcagga aaatgaggtg attatgggct gctgctccaa gaagtattgg 180  
 cagctgttgc tgggggcggc tccctggggg gtcacccctt kcttgctctt gtggatggga 240  
 accagagcac ccacttcaa agactctgta agccagggct taccaragaa agctgaagag 300  
 tctagggcca attttaatca gtttcttctg cttctcatgc caaaagagat gattgtcctc 360  
 actatagttc atcctatagt gcggcgggcc tgactcgcta ctgccctcta atgttctggg 420  
 anagaanctg ttgggtcttt cctacctaat ctggtagaaa tgtgagaaca gaggctaatt 480  
 tggggaaata aatctctcaa tttttttgag tgcctttgtg tgtgtgcgcg cgcgcatgtg 540  
 tgtgtgtnag gggcagggtc tctaagaaa aa 572

<210> 216  
 <211> 1350  
 <212> DNA  
 <213> Homo sapiens

<400> 216  
 gtgacttcta tattcaatag atttttgtaa atgttaaaac atctatatattt aaatgttaaa 60  
 aactaaata tagagagggg ctttatttca atcatagagc aacaacaaaa ataatgctta 120  
 tagctaaact gcctgttcta gaaagcatct gctttttcat gttattccta aatcctcttg 180  
 tcatactttt gtcattgaac aatgctctcc ctctcgctct ccacccctcat tcagaatttt 240  
 tagaagacca caatcgtgga gatacactac cagatattgt ttgatacatt tttatttgat 300  
 aaacattcag tgcaggaaac tgtgatttgc tatatgttta tgtatataat cttattctgt 360  
 agtcatcaga atgttaatgt aaggtaacatt tgatttttat tttttacatg tgtagttttc 420  
 tttcttcaca gtcaaagcat ttatattatt gggggtgggg gcagggaatt aagttggtgg 480  
 gctcgaaaaa ccattcatat gtatctgtct acaaagtgtc ggggataatt taaatttgaa 540  
 acctaaagtta tatatagttt ggcaatgctc ttcttcaata ttacaataa taggatgatc 600  
 tacaagaaaa taagtttctt tttgcaaat tttatcatac taaagttgtt cttttaattt 660  
 agcatatcta aaataggatt tagttcagtt tagctcacac aggtgtttgc tgacattcat 720  
 tggccattta atacagtgtt gagtgggtct ccgtaaaagt ataagtgtc acactacgaa 780  
 gaaatgcaca cgatcattct tgctcacttc tataacaaac ttacataaaa tggattttaa 840  
 aattcctact cacagcctaa aacttctgga gttcactacc tttttttcaa attcatgta 900  
 agatcacctg tgtattttat attttagtaa agccaattat gaagtacaag tatcatacac 960

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| gtacttttga  | gctactatta  | tttgaaaaaa | atctgccaaa | tagcatcttt | aggatatatt | 1020 |
| tacattttca  | ctcatctaaa  | aagtatacaa | aaataaaaaa | tggaaaaagg | tatcttctga | 1080 |
| atgttcaaga  | gcacccctata | gtgccaaata | ataaagcacc | atTTTTTtct | tcataaccag | 1140 |
| gattaaaaatt | catatatact  | gcagggcaga | catacatatg | atagcttgtg | ctgattaatt | 1200 |
| taacccatt   | tgtaaacaga  | tgaaaatttt | atTTTcttat | ttcatttata | agatggctca | 1260 |
| atgtattggg  | aggcttcttt  | tttattacag | aaagtgtata | ttggtatata | baaatgaac  | 1320 |
| ttttcaaatg  | aaaaaaaaaa  | aaaaaaaaaa |            |            |            | 1350 |

<210> 217  
 <211> 947  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (555)..(555)  
 <223> n equals a,t,g, or c

|             |             |            |            |             |             |     |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| <400> 217   |             |            |            |             |             |     |
| tgaagacaag  | ggtggcatat  | atTTactttg | caataagtac | accatattgg  | gtccttttga  | 60  |
| gattgtcatt  | tgggtgtgta  | gcatttaaga | tttaacagct | ttctattata  | gagatccctac | 120 |
| agctttatat  | tagaagatta  | ttctgaagtc | ataacatttt | tttaaaaaag  | taatttcaga  | 180 |
| aaaaaaaaaag | aatgttactg  | ggataatgag | gaatgatgtc | tagctgcctg  | gtggtgggtca | 240 |
| tcactctgcg  | tgcttatttt  | agttgggtgc | aggccattag | aagtcaagtt  | gtctgggtcac | 300 |
| gaatgaaacg  | tttacagtct  | gcttcaaggc | aatcaggact | atccattccc  | aggagtgaag  | 360 |
| tgtctgcatt  | gcataagactg | caagattgga | gtgataaatc | acacataactt | ttttttattt  | 420 |
| ttttgccaag  | agttttgtagg | ttccatttat | aaagccaggc | acttgattta  | gaatgtgtaa  | 480 |
| ggcaatcctt  | tgggaatgct  | ttgggatyca | gcataactct | ttgaatgaac  | tggagctttg  | 540 |
| tgaattncct  | tttnttcctc  | agatcataag | gtagaaaaaa | attcctttta  | acaaaaatagc | 600 |
| attcttatcc  | accacacttc  | tgatccaggg | gagtacactg | ggtattgacc  | tcaggaaaga  | 660 |
| gaacaaggga  | gtgagggtac  | aggaaatggt | aggagtgtga | gcttgaagac  | aaagacgacc  | 720 |
| caactggcaa  | agacagcagt  | tgtcaatcag | agcagatgaa | tcacacacac  | agcaaatatt  | 780 |
| cattatatat  | ctgctcaata  | ataagaaaag | cttctaccaa | aggccaatgc  | tccagacctc  | 840 |
| tccccgaacc  | tccagattca  | cttaccacc  | tgcttaccac | agcaatgtac  | agagcatcgc  | 900 |
| ctcgtgccga  | attcgatata  | aagcttatcg | ataccgtcga | cctcgag     |             | 947 |

<210> 218  
 <211> 1918  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 218   |            |             |            |            |            |     |
| gaattcggca  | cgaggtagga | tgagagagaa  | agaagaatag | gagatgggta | aggttggggc | 60  |
| ctggagagct  | gtacagatat | tgatgctatt  | cgccaatcca | ggacatgcag | aaggagcatg | 120 |
| catcagcccc  | gggcccgcag | gaaagagggg  | gccactcaaa | ctaggataat | gcacagaggg | 180 |
| tgTTTTTcaca | aaggtgtgag | cgtgggtgctg | gataaaggca | ggactaatgc | agtaacctag | 240 |
| agccagtagc  | agtggagtga | aggagcttct  | cccatcaccc | agccagaaga | ccaggaggag | 300 |
| aacagctacc  | tggaccagaa | ggagaggtct  | tgtagagaag | ctcccttgag | aggatcccct | 360 |
| tctgccaaag  | gacagccaac | ctaggtgggtc | ttgTgggag  | catgacagag | gagttaatTC | 420 |
| cccggTTTTca | tgTTcctcct | ttcctccact  | cctctgaggg | ttactagcca | aatccaccga | 480 |
| aggcagccac  | caagacatcc | tcacagatca  | gcctcccagg | acacacagca | gggcaaagaa | 540 |
| ggtggagatg  | gatgggaggg | gagcaaggag  | cagatttgga | ggagtgcagc | atggtcctag | 600 |

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| gagagcgcca | tccttgcgtgc | ccctagctgt  | gtggccttgg | ccaggttacc | taacttctct  | 660  |
| aatcctcaga | gagaggttgg  | ggctgaatac  | tcaggagtct | tcagtggaaa | ggtggatgcc  | 720  |
| atgggtgtgc | tgcgatttcc  | tggagaaggt  | gtagcttaga | ggggaactgg | ggcaggctga  | 780  |
| agagtgagag | tcagggtacg  | aggtctggga  | ggagccacca | cacagtcagc | agtagcttcc  | 840  |
| tcctctggga | tcctctagca  | ttttctcttt  | aacttctcac | agaagacttt | acagatttta  | 900  |
| ttgccactgc | ttccgtgtgc  | ctcccatcag  | agtgtgagca | cctttgttcc | tcagtccctc  | 960  |
| aaggccgatg | catggtcagc  | ccttgttagt  | tgagtgaatg | aacaaacaac | actgaagaag  | 1020 |
| ctgcccttga | aaaaccgggg  | catcgttaag  | ggctttgagc | agaggataga | agacagtgga  | 1080 |
| gggggaggct | cakgaggaag  | tgggatgtca  | agctgtgggg | cagctgcaag | accttgcattg | 1140 |
| catttggttg | aaatttctta  | ggggctacca  | gggggcaggc | tgtgcttggg | actagaggct  | 1200 |
| agagaggttg | ggaaggctca  | gttctgtgtc  | tcaagagaca | gccctctgga | cagagcacgg  | 1260 |
| cagctcctcc | atgacacagc  | tgtccacaag  | cttcggagca | cagctccttg | ttagtgagtg  | 1320 |
| gtggtgttag | gcagggtggg  | aggtggggga  | aattgaaagg | tatcctgggg | atgagcaaa   | 1380 |
| tctgatttgg | gggtgaagg   | gaacatgcaa  | caatgaaccc | agttcaatgt | ttaggcaaaa  | 1440 |
| cgtttaatgc | aggaagcagt  | gagaggtaag  | actggagcca | taagcaggca | gaagctctgt  | 1500 |
| gagaccaag  | tgcccagatg  | tggacttttc  | cttataggca | gtggagctcc | ctgaagggtt  | 1560 |
| ctgaagcaga | gaagagcata  | catagtcagg  | tgtgcttctt | acctggacta | ctgctgaggg  | 1620 |
| atatttagga | tgcagcatcc  | tctggatggg  | tgctataata | ataactattg | tgacaaagct  | 1680 |
| tcttctctgt | gagctgttgt  | gtttgcaaat  | cggaccaagg | tcccaggcat | ccaggccatg  | 1740 |
| gagctaagtt | cctagcccag  | gtctctgggt  | agggcactaa | tcattcagtg | tgccaaacct  | 1800 |
| ctgaaaggta | gcccggcccc  | tttattttacc | atactacaca | cagccagtc  | accttctctt  | 1860 |
| cctgagcacc | tgctcgtgcc  | gaattcgata  | tcaagcttat | cgataccgtc | gacctcga    | 1918 |

<210> 219  
 <211> 1026  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |            |      |
|------------|-------------|-------------|------------|------------|------------|------|
| <400> 219  |             |             |            |            |            |      |
| gtctaaatgt | tcagtttttc  | ttcctaattc  | caatgattct | cctcatttct | caatgtcctt | 60   |
| tgtccatctt | tgctgctcca  | tttgcaactgc | ctcccaaagg | tcactgtggc | tccttctctg | 120  |
| acttccacag | tcaagttaca  | cttcataaaa  | attctaagct | cattttcaga | agccacaaat | 180  |
| ctatccttct | ttaaagtctt  | caaactttga  | ttgtgtaaat | aaatactcag | aaacaagatt | 240  |
| tctaaaaaac | aaacactatt  | ggccatcgta  | tggtcaaaag | agataacaa  | tgtttaacct | 300  |
| tatatgttgt | aggcttttcta | aacttaattt  | caaaaaaaga | ctaaataaac | agtgtcaata | 360  |
| tgctataaaa | ctcacacga   | aaattttcag  | atcatccaat | tgtgtattca | ttggccggaa | 420  |
| acaatcatgt | aaaaaccaca  | gccctggagc  | tgggtagcat | agaaacaaga | agattcagca | 480  |
| tttcatggtt | ggtgactcaa  | atctctaaag  | ggktgtcagg | ttaaaaaaaa | aaaargaaaa | 540  |
| gaaaagaata | gaaatttgac  | ctgatctata  | aaaatgaaag | tcgctgggca | aagttttggc | 600  |
| ttttcactcc | tgacaaagat  | gagctctctc  | ataggtagac | caaggcacac | gagtgatgac | 660  |
| tttcgtggcc | ccaaaattct  | tcaagaaaat  | agtagattga | ggagcgatc  | tgcgatttga | 720  |
| tagagggtgt | gtttgaactg  | gatgacattt  | aagcttcctt | ctttctccaa | gattctgtga | 780  |
| ggccatgaag | catgctatct  | catcccccact | ccaattgctg | tctccctggc | ctggtgccct | 840  |
| taccacctca | atcttgggtc  | actgatctct  | tttgcaagaa | atcagtcctg | cctaccacct | 900  |
| gcaacttcat | cttcctaaaa  | tgtcactttc  | cttaaggcct | gctctgttca | aaggccagtt | 960  |
| cccagccaca | ccaatgtaaa  | ctcgtgccga  | attcgatatc | aagcttatcg | ataccgtcga | 1020 |
| cctcga     |             |             |            |            |            | 1026 |

<210> 220  
 <211> 1757  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 220  |            |             |            |            |            |     |
| ggcacgaggt | agatggggtt | ttgggtgtgga | tgtcctttct | gtttgttagt | tgtccttcta | 60  |
| acagacagga | ccctcagctg | caggctctgtt | ggagtaccct | gcaatgtgag | gtgtcagtg  | 120 |
| gcccctgctg | gaggggtgct | cccagtttagg | ctgctcgctg | gtcaggggtc | agggaccac  | 180 |





|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| agtggactta | tgtgctcct  | gctgccgagg  | cttgggtctgc | tgctcctcct | accgagttag  | 240  |
| cgatgcttct | gctggattcc | ggtgtactcc  | ctcattacct  | gccttgctga | gtgctcagtt  | 300  |
| gttctgcggg | atccagggtt | tgccgggagct | ttccaggtag  | acaggcgcca | ggcctgcttc  | 360  |
| tccacctgc  | gctggtcctg | cctgctgctc  | tggtgggtgt  | cccggtag   | tgccaggccgc | 420  |
| cctctcatag | gcagccctca | tatgatggct  | cccagcactt  | tctgtcccac | cgttaggggc  | 480  |
| cctgggacct | gtgcttccag | cgaccagat   | gggtgaggct  | gtaacagcct | gggccggctg  | 540  |
| cctctgccct | ttggtgaccg | tgatggggag  | gtgtccacaa  | agcaccctat | atgttggctt  | 600  |
| atcctccgc  | caggtctgta | gtctctaccc  | ggtcacccct  | tcttcctggg | accatgcccc  | 660  |
| agatcagctg | ctaccctcaa | gctctacat   | tagggggccc  | aggcgtgttc | aggaaggtc   | 720  |
| actgggtgcc | accttctccc | ccatcatcac  | gctcactgct  | ttctcttgat | gggtaaggct  | 780  |
| tcccgaatga | tgggaactaa | cagtgggtgt  | gaagtcgag   | cagacttcat | caggcattta  | 840  |
| gcatccaagg | ggtggctcat | gagtgcagat  | acagtgcagg  | ggccggagag | gggctgggct  | 900  |
| gggctgacct | gggagcctga | ggctgatgga  | gagtgggcag  | gtagggtgga | gaggcaggaa  | 960  |
| ggttggtggc | agccacatgg | ctgagggtca  | gagcctggcc  | agggagtctg | gagagaggca  | 1020 |
| gtgggtgggc | tgggggttca | gcctgctgaa  | ggggagcact  | ggtcagtgcc | cataccccat  | 1080 |
| ggggtgaagg | cctgggcagg | gcccaggggc  | agcttcgagg  | gtgacctgga | gctgctcagg  | 1140 |
| aagttagatg | gcccagcctg | acctgaccat  | tggtgggcaa  | ggaacgggat | ggagaagttg  | 1200 |
| tgtcctgggc | cttcagcgag | tgtgacattg  | tcagtgttgg  | gatagcttta | aagatctgat  | 1260 |
| tgcttatgac | atgccttgta | gcgctaccag  | catcttggca  | tttggcagg  | ctagtccagc  | 1320 |
| tcgctgtttg | cacgtcttct | gtcttatttc  | tagaagagag  | agttccagc  | ttgcttgatt  | 1380 |
| tcccccat   | gatgggaggc | tcatacattt  | atgggagact  | cattttactt | aggccttctg  | 1440 |
| aggatagttt | cattctgata | gttttttttt  | tttttttttt  | ttggagactg | agtttccctc  | 1500 |
| tgctgcccgg | gctggagtgc | agttgtgtga  | tctcggtcca  | ctgcaagctc | cacctccag   | 1560 |
| gttcatgctc | gtgccgaatt | cgatatcaag  | cttatcgata  | cc         |             | 1602 |

<210> 223

<211> 1873

<212> DNA

<213> Homo sapiens

<400> 223

|             |             |            |            |             |            |      |
|-------------|-------------|------------|------------|-------------|------------|------|
| ggcagcagct  | caggctcccc  | tccgaattca | cttggccaca | tccttcaacta | ctctccttcc | 60   |
| ttatgcttta  | tttaacacat  | ttccaogaga | catgtgttcc | catgaccttc  | ttccatgtcc | 120  |
| acctccacag  | ttttgctcag  | gttctcgttc | cctctcccag | gcctctctcc  | actctatact | 180  |
| ttcagggaatt | ctacccatgc  | aaagcccatc | tcagcttcca | cctcactcct  | gacttgacac | 240  |
| ctcctcatgc  | agcctgcctg  | cctgggcgct | tgtctagatg | ctctcacctc  | gttctgcctt | 300  |
| ggattactaa  | aacttacttt  | ctgtcttgc  | ttctttcctt | ctggagtctt  | tgagggggag | 360  |
| tgcagcttct  | ttacaatgtc  | tagatcctg  | tcccatccac | gcacactgca  | cagatacact | 420  |
| acagagcgcc  | cagctcacag  | cagacactaa | atgggtgaaa | aatgcaagag  | ggcctgtgt  | 480  |
| ctccctaagt  | ccaaaaggag  | acataagaat | attacaggcc | gatatttgta  | accattaag  | 540  |
| aaaaaagggtg | aaatagtgtc  | aatacctaag | caaaatacca | tgagaatata  | aatcaaatgg | 600  |
| tgaacaggag  | taataattaag | acagaaaggc | aatgggtctc | ttctggaacc  | attagcattt | 660  |
| aaatacagaa  | aagaaaatgc  | accattttta | cagctgcaga | agataataac  | agacacaatt | 720  |
| atTTTTccct  | aactagatgc  | catgccccat | gtacagtagt | tcctaatacat | cccctcatct | 780  |
| tagtctcata  | acaaccttat  | tattgtctct | atgttacgta | ggaggaaact  | gaggtagcca | 840  |
| gcagttaatt  | aaccttttcc  | atcatgcaac | cagcaaggca | gagctaggat  | ttgtatccca | 900  |
| gtagcacctt  | ttccagattc  | aagctcaact | cctaaattct | cctgcgtctt  | cactgtattg | 960  |
| ttttttacaac | acatttgcag  | gttgtgggct | aagtcaccgg | ctactgagag  | aaaagaagt  | 1020 |
| aacactccta  | tgaattttac  | atttctggct | gggcaccgca | gctcacacct  | gtaatcccag | 1080 |
| cacttttagga | agctgaggca  | ggagaattgt | gtgagcccag | aagtttgaga  | ccagcctggg | 1140 |
| caatatagcc  | agaccccatc  | tcaaaaacaa | ttgtgcattt | ctaatactca  | ctgagcccct | 1200 |
| gctatcccct  | ggctcagtgt  | acattgctct | atatctocta | gcaaaccag   | gagctatgta | 1260 |
| tgaactgaaa  | ccctgggttaa | atagcttgg  | caaagtcaca | cagctcagg   | gggggaggct | 1320 |
| gggttttaaag | gcaggctgct  | gatgctatga | tccatacttg | aggctactgc  | tggccacagg | 1380 |
| ctccatctga  | ggccctgtag  | gggtgagag  | gagaaaccg  | gccccagg    | cagggtctga | 1440 |
| acctctgtct  | gccagccagt  | agagaaaaca | gtccctcacc | cacaacgtgg  | ggataacact | 1500 |
| gcctaccaca  | ccaggcagtg  | gaaagaatta | aattaattta | aataaaggag  | acagtgcaga | 1560 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| gtacctgaca | cgcaataagc | actcaatgag | agctattatt | agaggtaact  | ctccctgctt | 1620 |
| tcagtcta   | gccatgtttc | ttatcactta | aggtgatcac | cttggttgctc | tttaaaatat | 1680 |
| tatgtatgg  | tttctctaag | atacatgtaa | gtgtaaaatg | cagaagaaaa  | gcatgcgggg | 1740 |
| acggggggg  | ggaagaaatt | cccttttctt | tattgatcag | cccttccccc  | aaaatacttt | 1800 |
| ctcaaggaat | tattaaatac | tcaacatggc | gcctcgtgcc | gattcgata   | tcaagcttat | 1860 |
| cgataccgtc | gac        |            |            |             |            | 1873 |

<210> 224  
 <211> 941  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |            |     |
|-------------|-------------|-------------|-------------|-------------|------------|-----|
| <400> 224   |             |             |             |             |            |     |
| ggcacgagat  | tttggcaagt  | gctgttatgt  | gaacaccacc  | atcacaaatca | agatagtcta | 60  |
| tagttctagt  | acccctgccc  | ctgaaacttg  | cttggttctgt | ttagtcagct  | cctctcccca | 120 |
| ccaccagccc  | ttgtcaactg  | actcattttc  | tgtctgtata  | gtttatatca  | tttccagaat | 180 |
| gtcatataaa  | tggaaattcta | gagtatgttt  | cctttggagt  | cgcacctttc  | acttaatgct | 240 |
| tctgagactc  | atctgtcttg  | ttgcatatat  | cagtacagaa  | gcatttctt   | ttattgctga | 300 |
| gtagtaatct  | gtcatatgga  | tgttccacag  | tttgtttatc  | catttatcac  | tggtggggat | 360 |
| acttgggktt  | tcagttttca  | gtgattatga  | agaaagctgc  | tgtcaacatt  | tgcaaacagt | 420 |
| ttgtgtgtct  | acattgtcct  | agtaaataac  | taggagtgga  | attgccgggt  | tgtatggtaa | 480 |
| cagtatactt  | atctatgaaa  | aactgacaga  | cttttctaaa  | ataactgtac  | cattttacat | 540 |
| tcccaccacc  | agtgtatgaa  | agtcccagtt  | ccttaacttc  | actgacaatt  | ggtatgtcag | 600 |
| ggtttggttt  | cattttttatt | ttgttggttag | gatttcaaag  | ggttatagcg  | ggatttcatt | 660 |
| ttggttttta  | tttacctttc  | cctaattggcc | attgagatc   | tccactgctc  | gtttgctatc | 720 |
| catttgccta  | ttttcttttg  | tgaactatgt  | tcaaatcttt  | tgtccatttt  | tttaaaacct | 780 |
| ggattgtttc  | ttattgatgt  | ttgagagttc  | tttatatggt  | ctggatagat  | atctttgtca | 840 |
| gttatgtgtt  | ttgcaaatat  | tgtataccat  | tatgtggctt  | gtgtttttat  | tccattaaca | 900 |
| gtattttttca | cacaagaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | a           |            | 941 |

<210> 225  
 <211> 1715  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| <400> 225  |             |            |             |             |            |      |
| ggcacgaggg | acattggagc  | tccccacacc | actcattgct  | gcccaccagc  | tatacaacta | 60   |
| cgtggctgat | cacgccagct  | cttaccacat | gaagcattg   | cgaatggccc  | ggccaggggg | 120  |
| cccagaacac | aacgagtatg  | ccctgggtgc | ggcatggcac  | agttctggct  | cctacctgga | 180  |
| ctctgagggg | cttcgacacc  | aggatgactt | tgatgtgtct  | ctgcttgtct  | gtcactgtgc | 240  |
| tgcacccttt | gaggagcaag  | gagaggctga | gcggcacgtt  | ctgcggctac  | agttcttcgt | 300  |
| ggtgctcacc | agccagcgag  | agctcttccc | caggctcact  | gctgacatgc  | gccgcttcgc | 360  |
| gaagccaccc | agactgcccc  | ctgagccaga | ggctcctggg  | agttcagctg  | gcagccctgg | 420  |
| ggaggcctca | gggcttattc  | tagcgcttgg | accggctcct  | ctgttcccac  | cactggctgc | 480  |
| agaggtaggg | atggcacgag  | cacggctggc | tcagctgggtg | cggttggtg   | gagggcactg | 540  |
| ccgtcggggc | accctttgga  | agcgctctct | cttgctggag  | ccaccggggc  | ctgatcgact | 600  |
| gcggctaggg | gggcgcctgg  | ccctggcaga | gctggaggaa  | ctcctagaag  | cagtccatgc | 660  |
| caaatccatt | ggggacatcg  | acccccagct | ggactgcttc  | ctatccatga  | cggctctctg | 720  |
| gtaccagagc | ctgatcaaag  | ttctcctaag | ccgcttcccc  | agagctgtcg  | ccattttcaa | 780  |
| agcccagact | tgggaactca  | gtacctggtt | gcgctgaatc  | agaagttcac  | tgactgctct | 840  |
| gcgctagtgt | tctggactcc  | acttaggaaa | gacgtctctg  | aagtgggttt  | ccgagaagcc | 900  |
| cttcagatgc | agccccagga  | cacggaagc  | ccccctgccc  | aactgggtctc | cacctaccac | 960  |
| cacctggagt | ctgtcatcaa  | cacagcctgt | ttcaccttcc  | tggaccgcgc  | tcctctgaag | 1020 |
| ggagtggact | ggaccactga  | atgtcactgt | tccttgaatc  | atgggcctac  | cagattgcct | 1080 |
| gccagaggca | ggactgacca  | gcccttctgg | gccccagggc  | aagccagaca  | ctgatggaca | 1140 |
| ccaaaggctt | tgtaaactatg | tcttgagggt | ctgctgcccc  | agcctggcag  | caggaaccgc | 1200 |
| cctccccaaa | caccacagc   | cactgaccca | tccaggactc  | cagagagtca  | ggtcaacccc | 1260 |

|             |             |             |            |              |            |      |
|-------------|-------------|-------------|------------|--------------|------------|------|
| gaggaccct   | tgggccccttc | tgggggtactc | ctttcggccc | ccctggtaga   | gtctcgggag | 1320 |
| ttcacacagg  | gtggcaaa    | ccccctagag  | ctcctctgcc | tgaatcctgc   | cccctagcct | 1380 |
| ttgaccactg  | tcagccacct  | gtgtccccttg | agccttcggg | tcttcacttc   | ccacttggac | 1440 |
| atcactgctg  | gacattccca  | tcgagatgac  | acctgggttc | caatcccagc   | tctgcctttg | 1500 |
| aagcacttgc  | ggccaccgtc  | aagtcctttt  | gctctcggac | cctggggttctc | catccttta  | 1560 |
| atgaggtggg  | ttcagaagct  | ctcccatctt  | cacagcaacc | ctggcactgg   | cttctcaatg | 1620 |
| ggaggggaagt | cagcagagaa  | actgaagtgt  | tagacactat | gtgtcccacc   | accccattac | 1680 |
| agagacatat  | gacaatgaaa  | aaaaaaaaaa  | aaaaa      |              |            | 1715 |

<210> 226  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (295)..(295)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (875)..(875)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (914)..(914)  
 <223> n equals a,t,g, or c

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| <400> 226   |            |             |             |            |            |     |
| gaatggtgaa  | atattaagtg | ctttctcccc  | caggttcagg  | attatgacag | ctatgtccat | 60  |
| tcacctcttc  | tgtacagcat | tgtcctgttg  | aagttctggc  | cagtgcaata | aggcaattaa | 120 |
| aagaaataaa  | atatcaaacy | attggaaaga  | tgtaaatgtg  | tcatcattca | tagaaaacat | 180 |
| gattcataga  | tatacataca | cgaatgcttt  | gaattcataa  | gtagattcag | ccagttgctg | 240 |
| gatataaagt  | caatatacaa | aaactatttt  | tatagacatg  | aaacacgcaa | tgagnaaaaa | 300 |
| aattttaacca | tttttagtag | catcaaaaaa  | cccccatacc  | taggaatatg | aatttgtagt | 360 |
| actatttggg  | atatgttgat | ggatatttat  | catttcag    | ttgggattat | tataaagaaa | 420 |
| atagccctga  | acatttgtaa | tatatgactt  | ttgggtgaatg | tagcattcat | ttctgttgat | 480 |
| tacaaactca  | ggggtgaaat | tgttgagtcc  | taagggagct  | atagatgtat | tcaacttcag | 540 |
| ctgatatggc  | taaataaatt | tgcgaaaaag  | attgcatcaa  | gttatgctcc | catcagcaat | 600 |
| atgagagttc  | ctgtttttcc | acattgtcag  | caacactttg  | tactgttact | ccttttaatt | 660 |
| ttagccgatt  | tggctgaagg | tgtggttaata | tctcattgta  | gtggccaggc | gtggtgctca | 720 |
| cgcctgtaat  | cccagcactg | tgggaagcca  | aggtgggccg  | atcacgaggt | caggagatcc | 780 |
| agaccatcct  | ggctaacatg | atgaaaccct  | gttgccctgta | gtcccaacta | cttgggaggc | 840 |
| tgaggcagga  | gaatggcatg | aactcgggag  | gcgngccttg  | cagtgagcct | ccagcctggg | 900 |
| caacagagtg  | agantctctc | aaaaaaaaaa  | aaaaaaaaac  | tcgag      |            | 945 |

<210> 227  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (112)..(112)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (147)..(147)  
 <223> n equals a,t,g, or c

<400> 227  
 ccgggttcgg ctctgtgtca gcagccgggc ggcgctcggg cgggacatgg cagcctgtac 60  
 agccccggcg cctggccgtg ggcagccgct ggtgggtccc gtcgctgact gnggccccgt 120  
 ggccaaggcc gctctgtgcg cggccgnagc tggagccttc tcgccagcgt cgaccacgac 180  
 gacgcggagg cacctctcgt cccgaaaccg accagagggc aaagtgttgg agacagttgg 240  
 tgtgttttgg gtgccaaaac agaattgaaa atatgagacc gggcagcttt tcctatag 300  
 cattttttggc taccgaggtg tcgtcctgtt tccttggcag gccagactgt rtgaccggga 360  
 tgtggcttct gcagctccag aaaaagcaga gaacctctgt ggccatggct ccaaggaggt 420  
 gaaaggcaaa actcacactt actatcaggt gctgattgat gctcgtgact gccacatat 480  
 atctcagaga tctcagacag aagctgtgac cttcttggct aacctatgat acagtcgggc 540  
 cctctatgcc atcccaggct tggactatgt cagccatgaa gacatcctcc cctacacctc 600  
 cactgatcag gttcccatcc aacatgaact ctttgaaaga tttcttctgt atgaccagac 660  
 aaaagcacct cctttttgtg ctcgggagac gctaaggggc tggcaagagaagaatcaccc 720  
 ctggctggag ctctccgatg ttcacgga aacaactgag aacatacgtg tcaactgtcat 780  
 ccccttctac atgggcacga gggaagccca gaattcccat gtgtactggg gggtactctg 840  
 tatcggtttg gagaaccttg acagtgatgt ggtacagctc cgggagcggc actggaggat 900  
 attcagtcct tctggcacct tggagacagt gcgaggccga ggggtagtgg gcagggaacc 960  
 agtgttatcc aaggagcagc ctgcgttcca gtatagcagc cacgtctcgc tgcaggcttc 1020  
 cagtgggcac atgtggggca cgttccgctt tgaaagacct gatggctccc actttgatgt 1080  
 tcggattcct cccttctccc tggaaagcaa taaagatgag aagaccac cctcaggcct 1140  
 tcaactggtag gccagctgag gcccgaagt cccaggcttg gtcaccggga agaacaactc 1200  
 tcatcccaca attgctgcag aactcttctc tccccatcat gggccacagt gggtctctta 1260  
 atttgattgt ggggttcttt ttgtggggag ggggtgtata acttttcttc agaagacca 1320  
 tgtgggacac ctccaaggct ggctcctca taagccctgc ctacaccatg ttccagtaaa 1380  
 cctctccacc aaggaactgt gttagctgc cacaggcctg gaggagtctc ctggcctgtc 1440  
 acgtgaggtt tgatcagtaa accagtgcas gytggccaa aaaaaaaaaa aaaaaaaaaa 1500  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1538

<210> 228  
 <211> 663  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 ggcacgagaa accatgaaag tcctttcttg gatccacttt atcttgatta gtctgcattt 60  
 tactagttca ctggatccct cctctagggg cctggggact ttcactgatg ctcttctctga 120  
 ttctagagca aagggtgtggg aaggggaaat ggaggaatgc cctcctgtct gtgtcgttct 180  
 ctgtgccaca gctacagatg cagaagggtt ctctggatag cacacctctg aatgtaaatc 240  
 atgataaaat ggatatttgg aaacttactc ctaagctgtg atttaggggtg tatttctact 300  
 tctggactgc ctcaatatca agggctgaga cttttgaa ttgaatatct gttgggtttc 360  
 atgttaagaa gcctgtggtc taggagtgtc attcagtgtt tcttttctctg ataaacactt 420  
 tgaatatattt tttgtgtttt ttgtttcctt ttctgaagct gttoctcctt ttaaatattt 480  
 ttaatcacat tgataaaatc tatccttcac cacctctggg tctactatag ttgattttta 540  
 ttttaaatgt ttaattgtat ttgattaaac acttaactgg attttggaat aataaaactc 600  
 tcgtccaatt tggcttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660  
 aaa 663

<210> 229  
 <211> 1816  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (504)..(504)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1405)..(1405)  
 <223> n equals a,t,g, or c

<400> 229  
 gcgtggatcc aagatggcga cggcgatgga ttggttgccg tgggtctttac tgctttttctc 60  
 cctgatgtgt gaaacaagcg ctttctatgt gccctggggtc gcgcctatca acttccacca 120  
 gaacgatccc gtagaaatca aggctgtgaa gctcaccagc tctcgaaccc agctacctta 180  
 tgaatactat tcaactgccct tctgccagcc cagcaagata acctacaagg cagagaatct 240  
 gggagaggtg ctgagagggg accggttgt caacacccct ttccagggtc tcatgaacag 300  
 cgagaagaag tgtgaagttc tgtgcagcca gtccaacaag ccagtgaccc tgacagtgga 360  
 gcagagccga ctctgtggccg agcggatcac agaagactac tacgtccacc tcatgtctga 420  
 caacctgcct gtggccaccc ggctggagct ctactccaac cgagacagcg atgacagaa 480  
 gaaggaaagt gatattcaaat gggncctctcg ctgggacact tacctgacca tgagtgcagt 540  
 ccagatccac tgggttttcta tcattaactc cgttggtgtg gtcttcttcc tgtcagggtat 600  
 cctgagcatg attatcattc ggaccctccg gaaggacatt gccaaactaca mcaaggaggga 660  
 tgacattgaa gacaccatgg aggagtctgg gtggaagtgt gtgcacggcg acgtcttcag 720  
 gcccccccca gtaccccatg atcctcagct ccctgctggg ctacggcatt cagctgttct 780  
 gtatgatcct catcgtcatc tttgtagcca tgcttgggat gctgtcgcgc tccagccggg 840  
 gagctctcat gaccacagcc tgcttctctc tcatgttcat gggggtgtttggcggatttt 900  
 ctgctggccg tctgtaccgc actttaaaag gccatcggtg gaagaaagga gccttctgta 960  
 cggcaactct gtaccctggt gtgggttttg gcatctgctt cgtattgaat tgcttcattt 1020  
 ggggaaagca ctcacagga gcggtgccct tccccaccat ggtggctctg ctgtgcatgt 1080  
 gggtcgggat ctactgccc ctctgtact tgggctacta cttcggcttc cgaaagcagc 1140  
 catatgacaa cctgtgctgc accaaccaga ttccccggca gatccccgag cagcgggtgt 1200  
 acatgaaccg atttgtgggc atcctcatgg ctgggatctt gcccttcggc gccatgttca 1260  
 tcgagctctt cttcatcttc agtgctatct gggagaatca gttcattac ctctttggct 1320  
 tctgtktctt tggtttcac atcctgggtg kctcctgkct acaaatcagc atcgtcatgg 1380  
 tgkacttcca rctgtgtgca gaggnattac cgytgggtgt ggagaaatty cctagtctcc 1440  
 gggggctctg cattcwacgt cctggtttat gccatctttw atttcgttaa caagtgcactg 1500  
 cagcgccaag cggcatccac caagcatcaa gttggagaaa agggaaccca agcagtagag 1560  
 agcgatattg gagtcttttg ttcattcaaa tcttggattt ttttttttcc ctaagagatt 1620  
 ctcttttttag ggggaatggg aaacggacac ctcataaagg gttcaaagat catcaatttt 1680  
 tctgactttt taaatcatta tcattattat ttttaattaaaaaatgcct gtatgccttt 1740  
 ttttggtcgg attgtaata aatataccat tgtctacaa aaaaaaaaaa aaaaaaaact 1800  
 tctcgccgc aaggaa 1816

<210> 230  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 230  
 aggtttttcca gaaagttatc agatcttgct ttcctgatta gcagcagtta gcgggggtgga 60  
 taaaagcacc ccttcagagc aatctcatct ccatttcttt caggccactt atttttttcca 120  
 actttttttc cgtatcttca taaatgtttc actcttcttt gttagtattt cttagtctct 180  
 tgagtcaaga aatatttact gagtatgatt gcatgcataagtagtgtgctg ttagagatac 240  
 gatacctgta agacaccaca gtgctgggta gatccgggtg ccattgtctg ttgccagggc 300  
 cgaagttggc attttgtaag tgttcgaata agcaccatgc cgtgggataa gaaataaaag 360  
 tgtgtgcctc atctgtaaaa aaaaaaaaaa aaaactcgag gggggg 406

<210> 231  
 <211> 1495  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 cccccgggct gcaggaattc ggcacgagct gacatatatt tgagaaactg ggctactgaa 60  
 agccctaacc ccacttggct gcatttttatt tggtaaccag tgaggcaaac acccttgcca 120  
 gacccttacc atccatcttg atgtgggtcc tgcactgga actgcttggg tacgggcctg 180  
 cccagatctt gggaatgtgg gcagtggctc ctctgaagca ccagtgggca gaggatgagt 240  
 catggtatcc tcccggcacc cctccctctg ccttgcattt tacttgtgat ccagggtactt 300  
 cctattgaag acagtggacc agcacatgaa gctggccttc tccaaggtct tgcgacagac 360  
 aaagaagaac cctctaate ccaaggataa aagcacgagt atccgggtact tgaaggccct 420  
 tggaaatacac cagactggcc agaaagttaac agatgacatg tatgcagaac agacggaaaa 480  
 tccagagaat ccattgagat gtcccatcaa gctctatgat ttctacctct tcaaatgccc 540  
 ccagagtgtg aaaggccgga atgaccacct ttacctgac acctgagcca gtgggtggccc 600  
 ccaacagccc aatctggtac tcagtccagc ctatcagcag agagcagatg ggacaaatgc 660  
 tgacgcggat cctggtgata agagaaattc aggaggccat cgcagtggcc agtgcaagca 720  
 ctatgcactg agatgccttg gccatggcac aagagaaacc agccaggaaa aaccagacag 800  
 actttcacac taaagaagag gcctccattt tttttttct tttttttatt ggtgtagtta 840  
 cgaagccttt caggctgctt ctgttttaaaa tataaaagaa aactttgccc cctttgcatc 900  
 ttcataaacc tgctgcggca gactcctcag ccgatgggtg ctctgggttt ccttgagtgt 960  
 catatgtcct agaaagttag tggctgac tttttgtct ggggcctggg gaaagggtt 1020  
 ggactgtgaa aagaaatgtg gcccctttcc atcttcaaga gagatggaat taatgatgga 1080  
 tggacccttg agggaatctc cccagccgac ttccactggg ctgacagact ttgctgacca 1140  
 caggggaacg atgttctttt ctttcttcat gatcagacat aaacttagca tcttaatgag 1200  
 agaaaaatga ggggaacttc aattatgatt tattaagac aatttctatt acaccctcct 1260  
 ttatgacaag tgacatttta gatgtaaaag taaaaacttt accatgcctt tttttttttt 1320  
 gttggcctaa cattgaggcc ttaaaacctg aggtcctgt gcctgatgga attcttgtaa 1380  
 catacacttg tgtatcatat aagatacca ctctgtttct cttatgtatt cttactctag 1440  
 ttgtttatta agaatgacaa gcacgtcttt tcaaaaaaaaa aaaaaaaaaa ctcga 1495

<210> 232  
 <211> 2895  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
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 catggcaatc gggctgggtac ttggaggatt tattttgggt gtgttcattt gtctgtctcg 180  
 aagaagaaga gccagtgtc ccatctcaca gtggaggttca agcaggagat ctaggctctc 240  
 ttacaccacac ggctcaaca gactggatt ttaccgccac agtggctgtg aacgtcgaag 300  
 caacctcagc ctggccagtc tcaccttcca gcgacaagct tccctggaac aagcaaattc 360  
 ctttccaaga aaatcaagtt tcagagcttc tactttccat ccctttctgc aatgtccacc 420  
 acttctctgtg gaaactgaga gtcagctggt gactctccct tcttccaata ttctcccac 480  
 catcagcact tcccacagtc tgagccgtcc tgactactgg tccagtaaca gtcttcgagt 540  
 gggcctttca acaccgccc cactgccta tgagtccatc atcaaggcat tcccagattc 600  
 ctgagtaggg tggcttttgg tttttgtttc tttcttgtct tgtcttttat tgaaaggaaa 660  
 tcaaaaatag gctaaacaga attttgaggg catggcccaa ataactcatg agttccaagt 720  
 tgaaacatgg ttgtgcaagt tggacattac aatgtaaaac acattttctt caaacacgtt 780  
 ttcccttttg tttcaaaaaa tgtaatatat tcccccaagc gttttatatt tatgtatttt 840  
 gtattcaatg tgaggcttat taaaaatagt gatttcaatg taagaatag ctaagatgca 900  
 ttatatatat tttaattaaa attaaaactt cagatatattg tggattacaa tcttcattta 960  
 cttccaatgt gactaaaaag agaaaaaaa tcactgtgtc actttaaaga aaaaacttct 1020  
 aagggatttg gattttactt tctttagaat gacaagtgaa tcatattgac attttacaat 1080  
 cttagatttt tctttttttt tcttttgaga cagggtcttg atccgtcgcc caggcgaggag 1140

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttgcagtagc  | atgatcagga  | ctcactgcag  | cctctatctc  | ccaggctcaa  | gtaatcctcc  | 1200 |
| catcttagtg  | ccccaaagtag | ctgggactac  | aggggtgcac  | taccacaccg  | ggttgaattt  | 1260 |
| tttttgaatt  | ttagtagaga  | tgaagtgtca  | ctatgttacc  | aggctgggc   | tcaaactcct  | 1320 |
| aaactcagat  | gatcctcctg  | cctcggcctc  | ccaaagtgt   | ggaattagcc  | tggccaatct  | 1380 |
| tggattttta  | atggaatatg  | tgggcacaaa  | atgacagaac  | ataggacatt  | ctaaagttcc  | 1440 |
| ttgatttgat  | cattataaga  | agtgtgggac  | tcaagcacag  | gaaactgaac  | tcttttgggtg | 1500 |
| tcattggatg  | tttcattttt  | gacactaatt  | ttttctggac  | aaactcttta  | tgtgtttttc  | 1560 |
| ccaagaatag  | ttatctactt  | cctggaggca  | aaatccttgg  | atttactaac  | atgatgattt  | 1620 |
| accttttctt  | caccgttgtc  | gttacattgt  | tagaaaagca  | acaggaaaaa  | atccaattca  | 1680 |
| tttgacctaa  | aaacaagcct  | caagttttaa  | accaaagtca  | cgtttttctt  | aagggaaaaa  | 1740 |
| ttttctttct  | taaacttaca  | tctagcaact  | tggaaagcac  | tttctctggg  | gatcttcttt  | 1800 |
| tgtaatcttg  | cagacaaata  | agtatgagtc  | actggggaga  | gagtttggtta | ttgaaataga  | 1860 |
| tggtgcccc   | gaagaattct  | ccttcctgga  | ttgactctta  | atcatcaggc  | atcattcctg  | 1920 |
| gtttgcttct  | ctacgaatct  | caattccaac  | ttctctgcag  | agtctgtaca  | gtgattaagc  | 1980 |
| catgccagat  | ggtctttggg  | gcacacagtt  | atttaagaat  | ccacttccac  | aggtggctgc  | 2040 |
| ccttgtaagg  | aagaatgcat  | ccctaaatgt  | ggccaccaga  | gagttccagt  | gggcagatgt  | 2100 |
| ctgtggctgc  | ccttctcatt  | taaggacatg  | agttcactgg  | agtattactc  | aaaaagtctg  | 2160 |
| tggtccattt  | ccagtattgt  | gaatatattag | tttatgtggc  | cgtttctttg  | tttctttgaa  | 2220 |
| cagtgggatt  | ttcagtgaaa  | aagtaccctc  | tttttcattt  | cctattgcag  | tggtcacagc  | 2280 |
| taatagtgtc  | tgaacatggg  | tcaagaataa  | gagattccat  | gtagcatttt  | ctttattatt  | 2340 |
| ttcattttcc  | ttatattatc  | catcattcct  | taaggacaat  | tattcttaat  | aatgcttata  | 2400 |
| gaaaatgttc  | tctaattaaa  | catgccaaaa  | ggaaaaagta  | agggaaagag  | ggagcaagaa  | 2460 |
| gaaaatggaa  | gaaaaaggga  | aaaaagctaa  | ccggataacc  | aatttggtat  | aagttggttt  | 2520 |
| tcaacaaaga  | aatttagcag  | ccaagtaagg  | tttcaaggga  | atattaactt  | ggtatcaggg  | 2580 |
| ctactttttt  | tttttttttt  | ttttttactt  | gcattgtcatc | cttaatgtct  | aacatgaaaa  | 2640 |
| atcaccaaag  | agtatggttt  | ttatcaagaa  | tttgtgttgg  | gagtaaaaaac | tgctttatag  | 2700 |
| ctcccaaatt  | aggaagagaa  | gagcagaaat  | cctctggggc  | atttaaccat  | ctggcgaat   | 2760 |
| tggtgtgtgca | cccttatccc  | agttataaga  | cagtcaaaat  | gactatttcc  | taaatattgt  | 2820 |
| gagtgtatga  | aatgtgaaat  | taaagcaaaa  | actggagact  | tttaatgtaa  | aaaaaaaaaa  | 2880 |
| aaaaaaaaaa  | aaaaa       |             |             |             |             | 2895 |

<210> 233

<211> 2150

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (874)..(874)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1198)..(1198)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1201)..(1201)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1266)..(1266)

<223> n equals a,t,g, or c

<400> 233



|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| ccacgcgtcc  | ggacccgagc | tccagtagtt | ccgcccgtctg | gtcatcgcgc | cctttcccct  | 60   |
| gccggtgtcc  | tgctcgccgt | ccccgccatg | ctgtctctag  | acttttttga | cgatgtgcgg  | 120  |
| cggatgaaca  | agcggcaggt | gagcttgtcc | gtcctctttt  | tctcctggct | cttcttgtcc  | 180  |
| cttcgaggct  | gctgctgcgg | ggcccggcgg | accccaggg   | tctggtgtga | gggtctgagc  | 240  |
| tggctctgata | cccgggtcat | tcgctttctt | tggagactgt  | ggccagaggg | cgccttgtcc  | 300  |
| gcctcattat  | ttttaacccc | gaactgattc | aggtccacc   | tggggcgggg | cggaagcgg   | 360  |
| tgtcttcacg  | ttccattcct | cccactgagg | caggggagca  | aatggaaacc | gtacgcgctt  | 420  |
| gaagtgggag  | ttgggggtgt | tattgtttta | gtcattttta  | tgccggcgac | tcttgatttc  | 480  |
| tccagtcgga  | gcgactccag | gtggtttcgg | gagagacgag  | gtttagccgg | tttctggggc  | 540  |
| gctcaggaag  | gcgattggag | gccccacaaa | aaccgttttg  | ctgctttcag | ctccttgcaa  | 600  |
| cccttttagta | gagctgaacc | gtagcgggct | gcaccgactt  | tgacttggac | cactctgggc  | 660  |
| tccgagttgg  | aacagttaca | ctacttgccc | ttgcgtccgc  | ttagcactaa | ggcggcagcc  | 720  |
| ctcggaatct  | atggttttac | agtcctaatt | cagtgccacg  | gggatctgga | aatgtaggtc  | 780  |
| tcctgatttt  | gtccttacac | tttactttga | tcttctagat  | cgtatgccaa | atagtactga  | 840  |
| gaatattgtt  | gtaattatct | agtccttaga | aaangttgtt  | ctgttttatc | ttttgcgcct  | 900  |
| agtgtgtctg  | tagagcctag | ttttgctgca | tcggactttt  | tttttgtttt | aaacagtat   | 960  |
| ttactgttat  | gattatcctg | atgtcaccat | taaggatttt  | ttttttcctt | ggacttgcac  | 1020 |
| tttttgtagt  | tataactgcc | acttagggaa | gtagatacac  | aacctttcct | tactcccctt  | 1080 |
| caggccttag  | ctagctcagt | gtcaattctg | tcagtcagaa  | ttgagcattc | tataaaaatt  | 1140 |
| gcgcaaactg  | tactttatgt | cttatgaca  | acacttcaaa  | tttttacttg | tatagtntg   | 1200 |
| ncctttttta  | atccatattt | ggatttctag | atgccacaga  | tatttctctg | aggaaagtat  | 1260 |
| ttatnttgag  | tctgatattt | attgactcta | tgctagggtc  | aatgagagaa | atgcaaagat  | 1320 |
| agttaagaaa  | gactcggcct | tcaaggagcc | taaatgtgta  | gaaaaggact | aagcaaac    | 1380 |
| aataactttt  | ttgagctctt | gccatgtgtg | aagcacttta  | tacacctgta | aggtaggtaa  | 1440 |
| cgttgttctt  | attaaacatg | aagaaaatga | gactttgtga  | gaagcaatac | agtatagaag  | 1500 |
| ttaagaatat  | ggactctaaa | gctagatttc | agaggtttga  | agtagctctg | ctacttactg  | 1560 |
| gctgtgtgac  | tttgagcaga | ttacttaacc | tgtctgtgcc  | tatgtttact | tttattgttg  | 1620 |
| taaaaagata  | tgcaacataa | aatattccat | ttcaaccgtt  | tttacgtgta | tacttcaactg | 1680 |
| acattagttg  | cattcactat | gttgtgcaaa | cgtagggtcg  | ctatgaagat | taaatgagtt  | 1740 |
| aattcatata  | aagccctcag | aagagtgtct | ggcacatggt  | gagtattgc  | tgtactgtgg  | 1800 |
| tcgatgtcat  | tgtagagag  | ctttagtgat | ttgcttaaga  | cagaaggtag | actgggtgcg  | 1860 |
| ggtggctcac  | gcctgtaatc | ccagcacttt | gggaggctga  | ggcaggcgga | tcacaatgtc  | 1920 |
| aagagattga  | gaccatcctg | gccagcatgg | tgaggccccc  | tctctactaa | aaatacagat  | 1980 |
| actagctggg  | ctgtttggcg | cacgcctgta | gttcagacta  | ctcaggaggc | tgaggcgggg  | 2040 |
| gaatcgccctg | ggaggtggag | attgcagtga | gctgagatcg  | tgccaccgca | ctccagcctg  | 2100 |
| gtgacagagt  | gagactccgt | ctcaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa |             | 2150 |

<210> 234  
 <211> 3102  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3096)..(3096)  
 <223> n equals a,t,g, or c

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|-------------|-------------|
| <400> 234   |             |
| tgcacccacg  | cgctccgccca |
| aaacctctac  | caagaatatg  |
| ccccccaccc  | cgccccaccc  |
| acgatctttc  | tgggctctac  |
| gaatagagga  | caaaggttgt  |
| ckssccctct  | cccactctct  |
| ccccactct   | ctctcatctc  |
| gtgtgtaaat  | gttggttctt  |
| tggggacttt  | gattttgctc  |
| cgctccgggc  | ccagtagttt  |
| gtgttttttt  | tggttggttg  |
| agataaaacta | tatctacact  |
| atttcctact  | agtttggtgc  |
| gtctctctctc | ttccctccct  |
| cctcctcca   | ctgtctctca  |
| ctgtgtatgt  | gtgggtgtgt  |
| ccactactgg  | attttgtaat  |
| tcattttttc  | tgagcactga  |
| gtttttgaaa  | attgggattt  |
| gttctctgac  | gaaactgc    |
| aagttgacat  | gcaactctct  |
| cctccccac   | gtgtatttg   |
| tcactttttt  | tgaggcgggg  |
| ctccagcctg  |             |

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| agctgcacaa  | aacgtagaaa  | gaagacatag  | cgctgccag   | ggaataggaa  | atgagggcac  | 600  |
| ttacacatta  | atgtgaatta  | gtaattgtgg  | tatagaaatg  | ttttatagtg  | aaagattcaa  | 660  |
| atttgctttt  | caagaaaaat  | gccaaaagct  | atttaaataa  | ttcgaggtta  | catcgtargt  | 720  |
| tttgattttt  | ctcaatttaa  | gatacagaaa  | acagcaagc   | cttaatatata | agtttcctaa  | 780  |
| agtttcttca  | agtatttttt  | aaggtggaga  | aatgcaggaa  | ttgtataacc  | agaattgttt  | 840  |
| ctgcctttag  | cttttcagaa  | cttgagatgt  | ggcagcactg  | gactgggttt  | ttttaaatgt  | 900  |
| taggactagg  | aatgtttgct  | cttgtttaatt | atgaattaat  | tgattattaa  | gtttagaatg  | 960  |
| cattttttaca | agtatctaac  | tatcaaattg  | tgtttagtaa  | cttgagtgtg  | tgacacaagt  | 1020 |
| tgatcaacag  | caaaatagag  | ttctgaattt  | cttttaaagt  | gatgatatat  | tattttgtga  | 1080 |
| aactttgtgt  | ttgaaaatgt  | ttatttctgt  | ttatggtgta  | atcattctga  | ggtgaggcct  | 1140 |
| ttcttatttc  | ctttgcattt  | tgctagagct  | gtgctgagtt  | cagcatttgc  | ttatttaacc  | 1200 |
| actacataat  | gacagaccag  | ttatttaggtg | ttagcatgtg  | tggttaataat | aatagtggaa  | 1260 |
| cttcacactt  | acatcaattc  | agtgcagggg  | catagaataa  | aatattaaat  | attggcagat  | 1320 |
| gtatgaaaaag | aagtgtgagt  | taaaaatatt  | gaatattggc  | aggtgtgaaa  | acaagtgtca  | 1380 |
| aaattcctca  | tatagagaaa  | ataattttga  | gttttagagta | ttatctttta  | attaagtgtg  | 1440 |
| gtctaaactt  | aactttctgt  | aaaggcactt  | tgtgggtttt  | ccaaagatgt  | tctagatcta  | 1500 |
| tttggttgct  | ctatagtcaa  | acagctcttt  | tgaagacaac  | tgtcttattt  | tattacaaat  | 1560 |
| tggcttgaca  | tatyyatact  | gtaacattgt  | aatattgctg  | tgctgtacat  | tttggccctt  | 1620 |
| ackaaatacg  | tctttttcag  | aactgtttaa  | gttttgatgt  | acatcragct  | gaattctgtt  | 1680 |
| tttaccagtt  | tcaaaacctt  | caagtgatat  | gtggaaaaaa  | gtgaatgaga  | cctctgatag  | 1740 |
| ggggttttca  | gaaccttggt  | cacaccaaaa  | tgtgacagtt  | ctttcatggt  | ttctaaacc   | 1800 |
| aagttaaaaat | tacatgtata  | ttttggtggt  | aaggttgatt  | tttaagatac  | ttctgatttg  | 1860 |
| tacaaaagga  | atgtttcctt  | tataaatcac  | agaagaaaat  | gacaatatct  | gttggatatt  | 1920 |
| tgatataatt  | taatggtggt  | ataaaacctt  | taagaggatt  | catggtgaat  | atatgtgata  | 1980 |
| acatctttat  | actttgaaaa  | atgttccact  | tacccttcag  | atatttggtg  | taagttaatt  | 2040 |
| caattcttaa  | tactttaatt  | ttgctccaac  | aagggtttta  | tggtgctggt  | aagagaattt  | 2100 |
| atttactaaa  | tgactatgt   | ataaagtga   | agatagttaa  | cttatctgac  | tttgatatta  | 2160 |
| gatggctgac  | attagtgcac  | ataatgcaga  | gtttaacctt  | gattctcaa   | cagagtccag  | 2220 |
| atttaaatgt  | ctacttagtt  | aattagttag  | ctgatattct  | tccacaatta  | atatattcaa  | 2280 |
| tttcccatca  | gtatatcact  | ttaaatttta  | tgtttttcta  | aggaaacttt  | ccacagaatt  | 2340 |
| ttaaacaact  | gatgcattca  | tactcagggg  | gtagggagaa  | tactttgcat  | ttaaaaaccc  | 2400 |
| tgtccacctg  | tcaccagcac  | aagagaatta  | gagcttcagt  | gagaatttag  | aaaaattata  | 2460 |
| ctaaagttag  | atgcattttt  | tctcattttc  | agcaagactc  | ctctaagcat  | ttactcattt  | 2520 |
| actgtattcc  | tgctctgaag  | atgtggatac  | agaattagc   | actcttgta   | ctttatttat  | 2580 |
| ttattggttt  | tttttttaacc | atctgtgtac  | attcctttcat | agggttagag  | ttctagttct  | 2640 |
| agaagttctt  | attttgtttt  | tggttgtaatg | tttgaatact  | atttaatatc  | cggttttaaat | 2700 |
| attgctggat  | ttgctacctt  | tggttacttg  | tgcaagtgtg  | aaagtaatcc  | actttcttgt  | 2760 |
| ttaatatacc  | agatacatag  | caaaagcagc  | ttggaataat  | tatagctggt  | tatttggtgtg | 2820 |
| tgctcagtta  | ctatatatta  | atcttgtaact | gtgtaacagt  | aactcttttt  | tgcttttcag  | 2880 |
| taattttaata | tgttcactta  | acaaaatacg  | aactttgaga  | tgactaaaag  | ttttgtttca  | 2940 |
| gcagtggctc  | aaaaaatttc  | agaaattact  | tttgcaatta  | tttgcaatta  | attgttcttt  | 3000 |
| tatctttaca  | ttgttttaagc | ctgtgatctt  | tctttccca   | gctaagagtt  | cttcaataaa  | 3060 |
| tttaagaaat  | acaaaaaaaa  | aaaaaaaaaa  | aaaaanaaaa  | aa          |             | 3102 |

<210> 235  
 <211> 865  
 <212> DNA  
 <213> Homo sapiens

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| <400> 235  |            |             |            |             |            |     |
| gctgaatata | aggaaatatg | tctaattggac | accagttaat | acttttttaa  | actactcttt | 60  |
| aaaaaaaaaa | tacgtttccc | ttgggttaact | gattttttta | tccaggggtg  | acattttttc | 120 |
| aacctttatt | aaaaagacaa | ataaaactatt | ttgtagaaga | tcagactcct  | acttaactgg | 180 |
| aagagaaatg | tctattaaat | gtctctcctc  | tttctctggg | tcaagaccat  | gtaattttat | 240 |
| gcttcagaga | tgaagatact | gtttgtttac  | aaagtgttta | gttttttaaga | catccaaaac | 300 |
| tctatgctag | agcaaaaatc | aaatagcaaa  | ggacactagc | cagaaaaatac | agtgtgtgtg | 360 |
| tgtgcacctg | tgtgcctgct | gaacaacttg  | acagtgtaac | agataaggta  | actgaagatg | 420 |

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| gtggatattt | gaattgtatt | agcttaatgt | ctacatatct  | ttggccaaaa  | ctctattgtc | 480 |
| atattagaaa | catgttatct | ttttcatgtt | tatttagtaat | ttatttttga  | ttctttgttt | 540 |
| tctttttcgt | ccaactaaaa | caactgtaat | gtacttgata  | cattttatct  | aagttctaaa | 600 |
| gtatttagac | aatccaaat  | actttgtttt | tagttttttc  | ctcctttcca  | tcctgttaac | 660 |
| cacagtgaag | cgctgcagta | ttttgatttg | gtcagtgcta  | cggaggaaga  | ccatgaaagc | 720 |
| tgaattggtc | tgtgccaccc | agagtaaacc | tcttctcttc  | ttctggaaag  | atggcgtgat | 780 |
| gtttttcaag | gattctaata | aatatcccgc | agtcattctc  | tgaaaaaaaaa | aaaaaaaaaa | 840 |
| aaaaaaaaaa | aaaaaaaggg | cggcc      |             |             |            | 865 |

<210> 236  
 <211> 2612  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| <400> 236   |             |            |             |            |             |      |
| ccacgcgtcc  | gcccacgcgt  | ccgctcccca | gtagctggga  | tgaccggcac | tcgccaccaa  | 60   |
| gcctagctaa  | ttttttttgt  | attttgacta | gagatgggg   | ttcaccatgt | tagtcaagct  | 120  |
| gctcttggtt  | tgttggtgtt  | gttggtgttg | ttgttggttg  | ttgatactga | gtctcgctcc  | 180  |
| agcctggcga  | cgagcgcaga  | ctccatctca | aaaaaaaaaa  | acaaaaaaac | caaaaaaaac  | 240  |
| aacagaaaaa  | aaacaaaaaa  | cgttgtttta | attttaatta  | actcaaatag | cttcatgtgg  | 300  |
| ctagctgccg  | ccctgtagaa  | cagcacagtt | ctagaacttt  | cgagaccttc | tcctgttat   | 360  |
| ccacacttac  | tttacagagt  | agactcagca | cttcgagtc   | cctgtccttc | aggccaggcc  | 420  |
| aaatcttggt  | ccccagagcc  | cagtgtggca | gaggccatcg  | aaaactgacc | cacgcactct  | 480  |
| agcccagccc  | tggatttaca  | gccaagcgct | gtatagggat  | gggtgaactc | tttggttttg  | 540  |
| tttttggttt  | gagttgggtc  | tctcgctctc | tcaccagggc  | tggagtgcag | tggcataatc  | 600  |
| atggctcgct  | gtagccttga  | cctcctgggc | tcgggccatc  | ctcctgcctc | agcctcctgc  | 660  |
| agaactgggg  | ctgcgggcac  | atgccaccac | acccagctat  | tttttatttt | atttttttgt  | 720  |
| agagtcaggg  | tctcactgtg  | ttgccagac  | tggctctgaa  | ctcctggcct | caagtatct   | 780  |
| tcctgcctcg  | gcctcccaaa  | gtgctgggat | tacaggtgtg  | agccactgtg | cctggcctct  | 840  |
| tgggtgactct | ttgcaagggc  | attgctggct | ggctgatatg  | gcctgcagcc | tctgcctgta  | 900  |
| accatcagag  | cgatactctc  | attatcggca | aggtggggacc | ccccctggcc | caagagacag  | 960  |
| ggcctgttat  | tccactgtat  | ggaggagaag | ctgaggctta  | gggaaggcag | atgacttggc  | 1020 |
| aaggtcataa  | agacagcaag  | ctgcaggacc | agctcattct  | aaggcatgaa | ccccctgtgg  | 1080 |
| cccacctcac  | catgatgtta  | acatttcagc | ctgctccatt  | ccaggcagac | agtcttccag  | 1140 |
| aaagttaccc  | ggctccctgg  | ctgggcgcag | tggctcgcgc  | ctgtaatct  | agcactttgg  | 1200 |
| gaggccgaga  | cgggtggatc  | acgaggtcag | gagatcgaga  | ccatcctggc | taacacgggtg | 1260 |
| aaaccccgtc  | tctactaaaa  | atatagaaaa | ttggctgggc  | gtggtggcgg | gcatctgcag  | 1320 |
| tcccagctac  | tcaggaggct  | gaaacaggag | aatggcgtgg  | acctgggagg | cagagctcgc  | 1380 |
| agtgcgcaa   | gatcgcgcca  | ctgcactgca | gcctgcacga  | cagagcgaga | ctccgtctca  | 1440 |
| aaaaaaaacca | aaagttaccc  | agcaacccaa | gtcatatcct  | gatgatatcc | atactcctca  | 1500 |
| gtcatgcac   | ccgtggtgca  | ggggctgacc | ccaagaggag  | ctgctgcccc | cagaggggtg  | 1560 |
| ggagccgagg  | cagggccttg  | gtcagactta | ccaggctatg  | ctccagccc  | agccctcact  | 1620 |
| agggaccccc  | gagtgcactc  | ctctcctctc | caggcctctg  | tttctccatc | tgtgcaacca  | 1680 |
| cagtgttggg  | catggttagtc | ccaagtgtct | gctcgtaact  | ttgccctctc | tgtgccccca  | 1740 |
| ggtcagggct  | gcgataagac  | ccggtcacgg | gtgacctctg  | aggagtggaa | tgacctctct  | 1800 |
| gaccgtgacc  | ttgaggccca  | gctcatctac | cggcacctgc  | tgggcgtgga | ggccatgctg  | 1860 |
| tgggagaggc  | accgggagct  | gagcgggggc | gcagaggcag  | gcacggtgcc | cacgagccct  | 1920 |
| ggcaaagtcc  | ccgaggactc  | attggccccg | ctgctccggg  | tgctgcagga | cctccgcgag  | 1980 |
| gcccatagct  | ccagcccggc  | cggctcccca | ccctcagagc  | ccaactgcct | cctggagctg  | 2040 |
| cagacgtgag  | gcccgcctta  | cgctccctct | gctgagtccc  | ctgccaagcg | ctcggagccc  | 2100 |
| ccccaggaca  | ctctgcaccc  | cctcaccocg | gtcctcctca  | ttagggtgca | gggcctaggt  | 2160 |
| ctcttccagg  | tgggggaggg  | gggagagtca | ggaataaggg  | gatccccaga | agtgcagagc  | 2220 |
| tgagcaggct  | tgggcctgtc  | atggctggcc | ggaagtgtcc  | ccagctccct | acagacgctg  | 2280 |
| tagccatcac  | tgcctctcca  | gggacccttc | tctcctgccc  | aggacagacc | cagccagaac  | 2340 |
| cactgctagg  | atgggcgcga  | cccaggggtc | tggcctccag  | ggacctagag | aatgggaggg  | 2400 |
| agaacggggc  | cccaggagac  | cgggccgcca | cgcacccgc   | tacccttggg | tgccacaggg  | 2460 |
| ctgtgctgtt  | gccaacagta  | aacctgctct | tactgtcaaa  | aaaaaaaaaa | aaaaaaaaaa  | 2520 |

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 612

<210> 237  
 <211> 1899  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1439)..(1439)  
 <223> n equals a,t,g, or c

<400> 237  
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 aatttttcat aatataatcta ttcctaacta ggttttttta atcaaattaa taaaatggta 120  
 ctcccttttg tggtattggt cagaccaaact tttatcagtg tccttcaccc tttattctac 180  
 tcacattggt tattttctata cttaataagt cctgttcact ctccctctat aatatattac 240  
 aaacctgatc attgtcacta caccacattc attcctgggc tactacaata gccagggtta 300  
 cctacttttc tttcggcatt tggacaatct gtgtttctgg aagtagccca aatgatcttt 360  
 ttttggttct atattattca gatcctatta ctccctgatc tcaaccccta caagatattc 420  
 ctattatatg cttaataaaa tccaatatcc ctaccttggc ctgtatactc aataaagtcc 480  
 aatatcccta ccttggccta aagatctta gatgactggg atctaggaaa cctattcagc 540  
 taatttcctg caattctcta tgtttacctg ctcaagggtt ttaccactcc tcaaattattc 600  
 aaactgggtt tgcactcttt tagttctatc tttcttttg cagatgcca tcttagtaat 660  
 cataagcagt ttacctctaa attaatgcta aatattgtaa aaggtgtatt aagttcag 720  
 tctttcattt attctttcaa ccaccaagtg tcgattgaac acatacattg ggtcacacca 780  
 atcaaataag atagactccc aggcattcac gagcatctac tactcaattc atctcaggat 840  
 ctatacaagg ggtcatttta tcagaaacca aagtcctgat gctgtccgaa aaatcacgtt 900  
 ttcaccatga tctcctactt ccctagggtg aagtataact ttttaggata tatcatggtt 960  
 gctgacttaa cttttgtatt ttttaaatat actcatgaca agtatcatat aaaacctaac 1020  
 cagcaacttt gcaccagcaa aagtttttca acatttcaat tcttacaaaa tcaaataata 1080  
 taatttccta ttagtaaaaa aattcacaca tctgcaaagc ttggtttac taccactgtt 1140  
 taaaatctta cctttggaag ctattttatga ttgaaaaaca ctttacctca ctcaaaaaga 1200  
 gctggaagtc tctcttcaat ccaatatgca cacagaagac aaaaagctgt atcattcctt 1260  
 gatgatatat ttgaaatcat atggccacgt ctgtccattg tcttcagagt ttctaagtat 1320  
 ttcagaaaaat tatgacttgc actgtagaac tattttaaag aaattccatg gtgcaaacag 1380  
 aaaaactaaa acttttcatg ttaggataat ttattaaaaa tacaacaaaa tcctatgtnt 1440  
 acataagaag atagtaacta gcctttttga gagggaaatt tttctctcat aacttctttt 1500  
 ctagtaattt caataaagaa taactgccat tccaacgttt gcccatctc actctctgtt 1560  
 cttcttatgg ccaagtattc aagcttgaaa tttgcagagg aaattcttgt ccgtttttta 1620  
 tatcatgtgg taagcctaatt aaaacatctt ctgaaataat tagcccttaa aaggatagta 1680  
 tcttctacct gacagaggca aatattattg aaaagtttgt accttataag cacattaatc 1740  
 atggagtcct ggaactggat tctgtctaag actgactttt gcttaattaa gttcacagag 1800  
 attttccaca tttttttcca gaacattgca tgtagagata ttgtcgatca atcacataac 1860  
 tagggtcaga aagatgtaac aaggagaaaa aaaaaaaaaa 1899

<210> 238  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 238  
 ccacgcgtcc gctgccccca tgcagtggta gtcaccgttc tgtccccgc ggggtgctggt 60  
 gagaaaggta aaagggcggt tccagagcct gagggcctgt gactgcagtt tacataactg 120  
 ccgaaactta aggaagcgtc taaataaaaa gaaacatgtt aacccaaaat gggtttatttg 180  
 tttttttttt ttttttttgt ttccagagct catgcaaaca tgcaaaaaaa aaaaaaaa 238

<210> 239  
 <211> 1459  
 <212> DNA  
 <213> Homo sapiens

<400> 239  
 acgcgtccgg cgtctgcagc tgcaggggag gaggaactggg tccttccctc tgaagttgaa 60  
 gtgttggagt ccatctatct agatgaacta caggtgattaaaggaaatgg cagaacttca 120  
 ccatgggaga tctacatcac tttgcatcct gccactgcag aggaccagga ttcacagtat 180  
 gtctgcttca ctctgggtgct tcaggtccca gcagagtatc cccatgaggt gccacagatc 240  
 tctatccgaa atccccgagg actttcagat gaacagatcc acacgatctt acaggtgctg 300  
 ggccacgtgg ccaaggctgg gctgggcact gccatgctgt atgaactcat tgagaaaggg 360  
 aaggaaattc tcacagataa caacatccct catggccagt gtgtcatctg cctctatggt 420  
 ttccaggaga aggaggcctt taccaaaaaca ccctgttacc actacttcca ctgccactgc 480  
 cttgctcggc acatccagca catggagcaa gagctgaagg cacaaggaca ggagcaggaa 540  
 caggaacggc agcatgctac aaccaaacag aaggcagtcg gtgtgcagtg tccagtgtgc 600  
 agagagcccc tcgtgtatga tcttgccctca ctgaaagcag cccctgaacc ccaacagcct 660  
 atggagctgt accagcccag tgcagagagc ttgcgccagc aagaagaacg caagcggctc 720  
 taccagagcg agcaggagcg ggggggaatc attgaccttg aggctgagcg aaaccgatac 780  
 ttcacagcgc ttcagcagcc tcctgccccg gcggaacctg agtcagctgt agatgtctcc 840  
 aaaggatccc aaccacccag cacccttgcg gcagaactat ccacctcacc agccgtccaa 900  
 tccactttgc cacctcctct gcctgtggcg acccagcaca tatgtgagaa gattccaggg 960  
 accaggtcaa atcagcaaag gttgggcgaa acccagaaag ctatgctaga tcccccaaag 1020  
 cccagtcgag gtccctggcg acagcccga cggaggcacc cgaagggagg ggagtgccac 1080  
 gcccctaaag gtacccgtga caccagga cgtccacctc ctgagggggc cctcaaggag 1140  
 cccatggacc taaagccaga accccatagc caaggagtgt aaggcccca caagagaagg 1200  
 ggccctggcg ctggcagggg cccccacccc gcaggactcg ggactgtgtt cgctgggagc 1260  
 gctctaaagg ccggacaccc gggtcttctc accctcgctt gcctcggggc cagggagcat 1320  
 accggcctgg tactcggagg gaggccctgg gcctggaatc taaggatggt tcctagcagg 1380  
 acttggtggg gggaaacagg aattggggat gggaggggag caataaagat atttggcctt 1440  
 caaaaaaaaa aaaaaaaaaa 1459

<210> 240  
 <211> 532  
 <212> DNA  
 <213> Homo sapiens

<400> 240  
 actcatataa gaaagcagta cgccgcagta ccggtccgaa ttccgggtcg acccacgcgt 60  
 ccgcccacgc gtccgcacct cccttggctg tggggagggg cttccatgcc ctgtgtggct 120  
 ctgggtggg ctgtcgcacc aactgctct tcctttctct tcacgaatca cgcaagcctc 180  
 ctatgcagtt ctgatgagat aacdgata tcttgggtgc cggatgaagga tttacatgct 240  
 tattatgggt tttttgtgtg tgttgttgtt tgggtttttt tttgatggga gcctcagatc 300  
 gccgctgttg ctaatcatcc atcttggccc tgccccaca tttctgcaaa tttaaatatg 360  
 agatttgtcc ccttaggtgc acagtccaga ccccatccag tccagctcct tttaaagcca 420  
 catggaagat cagctgagaa tggtttggga gccaggtgc gctgtcttcc gccctgcctt 480  
 ctccctgaaa taaagaacag cttgacagaa aaaaaaaaaa aaaagggcgg cc 532

<210> 241  
 <211> 1084  
 <212> DNA  
 <213> Homo sapiens

<400> 241  
 agaagacgac agaaggggag ccgtggggc cgcgattccg cacgtccctt acccgcttca 60  
 ctatgcccgg cattcttcgc tgttttcccta actgccccgc ttgactagcg ccctggaaca 120

```

gccatttggg tcgtggagtg cgagcacggc cggccaatcg ccgagtcaga gggccaggag 180
gggcgcgggc attcgccgcc cggccctgct tccgtggctg gttttctccg cggggcctc 240
gggcggaacc tggagataat gggcagcacc tgggggagcc ctggctgggt gcggctcgct 300
ctttgcctga cgggcttagt gctctcgctc tacgcgctgc acgtgaaggc ggcgcgcgcc 360
cgggaccggg attaccgcgc gctctgcgac gtgggcaccg ccatcagctg ttcgcgcgtc 420
ttctcctcca ggtggggcag gggtttcggg ctgggtggagc atgtgctggg acaggacagc 480
atcctcaatc aatccaacag catattcggg tgcattctct acacactaca gctattgtta 540
ggttgcctgc ggacacgctg ggcctctgtc ctgatgctgc tgagctccct ggtgtctctc 600
gctgggttctg tctacctggc ctggatcctg ttcttcgtgc tctatgatt ctgcattgtt 660
tgtatcacca cctatgctat caacgtgagc ctgatgtggc tcagtttccg gaagggtccaa 720
gaaccccagg gcaaggctaa gaggcactga gccctcaacc caagccaggc tgacctcatc 780
tgctttgctt tggcatgtga gccttgccata agggggcata tctgggtccc tagaaggccc 840
tagatgtggg gcttctagat taccctctcc tcttgccata cccrcacatg acaatggacc 900
aaatgtgcca cagctcgcct cttttttaca cccagtgcct ctgactctgt ccccatgggc 960
tggtctccaa agctctttcc attgcccagg gaggggaagg tctgagcaat aaagtctctt 1020
agatcaatca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
tcga 1084

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<210> 242
<211> 870
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (743)..(743)
<223> n equals a,t,g, or c

```

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<400> 242
ggcagcagca gatattaaat ctcacagaaa ggtgttcctt attaatcttt acaaaattgt 60
catttccccg gtgaagccaa ttacatttaa aaataatggt cagaaaatgc tgctgcctgc 120
tttctctcct cttttaccca ccccttggtc tcccagcaat cttcgccctg tatgtttatg 180
tggacaattt ctattgtaac attctccatt ccattaactctgcctcttcc tctgaggggg 240
gaaaataaaa ccctaaatgg ctctaatagt tatgtatttt attttgtctc agaggtttcc 300
aaacttctgc ttttagcttc cttttcactg ggacaaatgg atgtaagtta tttccagtt 360
tcctgaaaaa taatcaggga ctattttctt catctatctc aggtgcttca tgagtttctt 420
aagatattaa ttacggtttc catacattca gaatcaaggg actcacggat atggtactgt 480
gttcaactgc acacagagtt tttctagaaa aaaaaattct ttatttttat cttctatttg 540
tatccaaacg atggtaaaaa aaaaattctc tttagctagg tactgggatt ttttctttag 600
gaaataactaa tagagttaca aagggttagct tataataga caaaagactg gcggccaaac 660
agagcagtggt gtgaaatggg tccctgggtg acatgtcaga tctttgtacg taattaaaaa 720
tattgtggca ggattaatag canaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaactc 870

```

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<210> 243
<211> 2263
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1586)..(1586)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (2262)..(2262)  
 <223> n equals a,t,g, or c

<400> 243

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| aattcggcag | agcagcagcg  | tccggcgaga  | tgaaggcgct | yggggctgtc  | ctgcttgccc  | 60   |
| tcttgctgtg | cgggcggcca  | gggagagggc  | agacacagca | ggaggaagag  | gaagaggacg  | 120  |
| aggaccacgg | gccagatgac  | tacgacgagg  | aagatgagga | tgaggtkgaa  | gaggagaga   | 180  |
| ccaacaggct | ccctggtggc  | aggagcagag  | tgctgtgcg  | gtgctacacc  | tgcaagtccc  | 240  |
| tgcccaggga | cgagcgctgc  | aacctgacgc  | agaactgctc | acatggccag  | acctgcacaa  | 300  |
| ccctcattgc | ccacgggaac  | accgagtcag  | gcctcctgac | cacccactcc  | acgtggtgca  | 360  |
| cagacagctg | ccagccyate  | accaagacgg  | tggaggggac | ccaggtgacc  | atgacctgct  | 420  |
| gccagtccag | cctgtgcaat  | gtcccaccct  | ggcaaagctc | ccgagtccag  | gacccaacag  | 480  |
| gcaagggggc | aggcggcccc  | cggggcagct  | ccgaaactgt | gggcgagcc   | ctcctgctca  | 540  |
| acctccttgc | cggccttggg  | gcaatggggg  | ccaggagacc | ctgacccacgg | ccccctccc   | 600  |
| acccccaccc | ggctcacccc  | cggccctgcc  | agcactctgt | ctggtagcctt | cccctcctgc  | 660  |
| ccctgcacca | gctttggaga  | atggatttgg  | agtgtcttgg | gcgatccagc  | cagcgaggc   | 720  |
| cccccgccc  | ggttgcttcc  | tcagttccc   | gctgtgtcct | tggtgtcctt  | tctccaccac  | 780  |
| ctgtgagcag | caagactgcc  | gcacgtgggc  | gctgggtcca | gacctcggct  | gccacgyccc  | 840  |
| aggacctgya | gcctcacgg   | gggctgggga  | tccccatcag | cacagccagg  | cagagatgat  | 900  |
| acccaccaca | cacctggggg  | ccccacacc   | cagtcctcac | ccttaacttc  | tgccatggga  | 960  |
| atttctccat | ctgcagcagt  | cacacggggc  | cacctgccc  | ttcccagggt  | cggcctctcc  | 1020 |
| gctgtctgga | gggaagggga  | tttggaggga  | ggctgtcgtc | gccccagga   | aagacggggc  | 1080 |
| tgggggaggc | gggacagtgg  | gagaggcgcg  | ctgaggatga | gagggcacag  | ggaggtgggt  | 1140 |
| tgggggtgag | ccacatgcgg  | aggggcgggg  | cggggcgggg | ctggggggac  | aggcaccaag  | 1200 |
| tatgaagagg | atggggccag  | cggggcctgt  | ctggctatgg | cgtgagcacc  | gctatgggag  | 1260 |
| accctggctt | ggaaagtga   | cttgcagcct  | tggatgggga | agggccagat  | gctgggtggg  | 1320 |
| tgctgttcac | cttgagggtga | ccatctaggg  | tcagtacctg | ctgggcttag  | gacagcgct   | 1380 |
| gaggctggga | atacctgtct  | ctgctctagc  | agaggctaaa | gcaggctaga  | gcagtggagg  | 1440 |
| ggtggagttg | atgaaaggag  | aggagtagat  | gagatggaat | ttttccagcc  | tcctcctggc  | 1500 |
| ctgccctcta | gactccagtc  | cccaagccct  | cagcctagt  | ggtgtcatgg  | atggatctgg  | 1560 |
| gggtgtcaga | caggcttacc  | ctgtgnccag  | ggagggggca | gaatgggcct  | gcagcttctt  | 1620 |
| gcaraggaag | caggactggg  | tagcagagcc  | gggaagggtg | gtggcccatt  | acaggggggt  | 1680 |
| ccccagggtg | tcctctggca  | gggctgtgac  | tgctgcaagc | tctgccttca  | ccagtagctg  | 1740 |
| gtgccaggac | agagctctgg  | gacagcaggc  | agaggccgag | cctggggccac | agctcagcca  | 1800 |
| ctgacttggg | tatcagtttc  | cccttctgag  | aagtcagag  | tgagacttaa  | agaaccctta  | 1860 |
| gatccccacc | agttcaacac  | tccatttaact | gggaagccca | gagtcctgtc  | cggcctgcca  | 1920 |
| agttcatcct | ggtggacagc  | gggaggcctc  | cgctaactgt | tctcttcttt  | tccttattaa  | 1980 |
| taaaacacac | aatgcctagc  | tgggggggtcg | gaaggcaa   | at          | gtgggggtcac | 2040 |
| gtctttctcc | ttctccttcc  | tcttctgtct  | ggctgaagt  | atgactggag  | ctcagcaacc  | 2100 |
| actttgcacc | atgaggcagc  | actgagcagc  | gtagggcagc | ctgggtgagag | gggcctagct  | 2160 |
| cgctgccgac | agaagtca    | gcctacctca  | gggtccctt  | acctgggtgg  | gaaataaatt  | 2220 |
| tctgtctgtg | tgaaaaaaaa  | aaaaaaaaa   | aaaaaaaaa  | anc         |             | 2263 |

<210> 244  
 <211> 2566  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2553)..(2553)  
 <223> n equals a,t,g, or c

<400> 244

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcaaatagca | acttcagtac | atcataatat | aaatagaaaa | aaaagatcag | tgcttagatt | 60  |
| gttaatgttt | tgtttttatt | tgaattattt | tactaacttg | tttttgtttt | taacctgttc | 120 |
| tcgctcagag | tccctctcct | ccccgacagg | accctattca | ggtttccctt | tcttaaagtc | 180 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| tccccagtg   | aggaaactctc | tcaacaaggg  | cccactcctg | gtgcagtgact | atagcttttc  | 240  |
| atcccacctc  | agagtccccc  | gcāaaagaa   | acaagtgtac | agagtaccag  | tcagggtacc  | 300  |
| tcctaaaagc  | ccagcgatgt  | cccctccatc  | cagtccaagg | tttcactttt  | tcaccttttc  | 360  |
| tggtcctttc  | cccaacagct  | attaatggta  | ttatccattc | aggcttttct  | tcaccccagg  | 420  |
| ccttggtgga  | ccamccttaa  | tcatccagtg  | gtactgcccc | ctcttaggat  | ataccaccam  | 480  |
| cgstcacaca  | ggatctccac  | ccagaaacaa  | tgacatctgg | ggcttttctc  | cagtcccttg  | 540  |
| gcatggtatt  | tcttacaac   | tttctacctc  | ccactggcta | atagctttat  | tcaagtasaa  | 600  |
| ttacacgcca  | tāaaattttac | tcattttatt  | tttttatttt | tattāagtta  | ggttgtgttc  | 660  |
| aggattttact | cttttttaagt | ctgcaattca  | cttttttttt | ggtaaattta  | gagttgtaca  | 720  |
| gtcatcacca  | tcatccaatt  | ttagcacatt  | tccatcacct | caaaaagatc  | cctcatgccc  | 780  |
| atttgstgct  | attccacatt  | ataaccttcc  | acccctggca | accactaatc  | tactttgtgt  | 840  |
| ctgtatarat  | tggtcttttc  | tgcatatttc  | gtacāaaat  | ggaacataā   | atattttgtc  | 900  |
| ttaagtattt  | ttgaaacata  | taattttgtt  | gtggāaatag | tagttgattt  | tatctatgtc  | 960  |
| tttatcaggc  | ctttctctgt  | attgaatttt  | cacattgtca | ataccactca  | gaaacagtgg  | 1020 |
| ttyatcctac  | tgcaagcaagt | tcattgaata  | ctgttggcac | tggaattttat | ccctgctgta  | 1080 |
| accaaaggt   | yctycggtt   | gacctactc   | agcttācaaa | gggctgtaaa  | rtgagggacc  | 1140 |
| acatggttac  | mcttcgtgat  | caagggtgaag | gsggagattt | gccgtcctgt  | cccactgcta  | 1200 |
| gaatgttgga  | cgatttgcac  | aagtacagag  | atgtcattgt | tgtgcctttt  | tcaāaaagata | 1260 |
| cagtttagtga | tgttgggggt  | ggcctctgtg  | atgāaaaggg | taāgaatgt   | gatgttttac  | 1320 |
| tgagaccāaa  | tgaccatgg   | ggccccāaa   | ctggggagct | caatgctttc  | ttgtcattga  | 1380 |
| aaaactggac  | tctacaactg  | aaacaacagt  | cactgttttc | agaagaagaa  | gaatatacca  | 1440 |
| ctggatctga  | ggctactgaa  | gatgaagttg  | gagatgaaga | agaagtatcc  | aagaaacāaa  | 1500 |
| ggāaaagga   | gaagccāaag  | aagttcacta  | gacmaccaaa | aaagcaggta  | tcttcacccct | 1560 |
| gtgccagag   | gaaagāaaag  | gcattggaga  | aggtaactct | gaattatctg  | ktgktaaagt  | 1620 |
| catatggāaa  | aataagcatg  | tgagtatagc  | cagāaaaaaa | tāaaagagt   | aatgaagaca  | 1680 |
| catggaatgc  | tagcaatgta  | aaaatgaagt  | tttttatāa  | ctgagattāa  | agatctctāa  | 1740 |
| gatatattga  | caaatgagaa  | aaggāagggt  | cagāaacgta | tagtgggtata | gtatgctacc  | 1800 |
| atgtgtgtaa  | agtagatggg  | ggāaatatat  | aaataacttc | cttgtatatg  | cataāaatgt  | 1860 |
| ttctggaagg  | ctacataaga  | actcgataaa  | attgggtgcc | tctcagggaag | ggaactgaac  | 1920 |
| gtgtaaggga  | cagaagtgag  | agtcttttca  | ttatatgtgc | cattataacct | tttgaatttt  | 1980 |
| aaaccaatat  | tattttattca | aaaaattāaa  | aatagtcttt | tāaatāaaaa  | ataaatcata  | 2040 |
| ttttatgata  | tttāaaaaata | attcttattt  | ctccatgcct | ttgaagggaag | gggtāaaaaa  | 2100 |
| gccaggtagg  | aataagagaa  | tagtaataac  | cācattggc  | tāaaagāaaa  | actgtgaatt  | 2160 |
| tcaāaaatgt  | gtgatagggt  | gagtcctggg  | taagatccac | agaattacat  | tggacacatt  | 2220 |
| gtacattcat  | ctttgtgtta  | agtagcacag  | gcatataagt | gggttaattc  | tāaaaaāaaa  | 2280 |
| ttgtatcagc  | tggctttgag  | cttttgacct  | cgtgatctgc | ccgcctcagc  | ctcctāaagt  | 2340 |
| actgggatta  | taggcgtgag  | ccacaatgcc  | tggccacatt | tatgtatttt  | tttatattct  | 2400 |
| gtatcagtta  | gcctgtttat  | tcacgtāaaa  | gttttccacc | atgtcttatt  | atccatggtc  | 2460 |
| cataggtcac  | ctataacaca  | tataataaag  | tacatcattg | ctgāaaaaaa  | aaaaāaaaaa  | 2520 |
| actcgagggg  | gggtcccgtā  | cccaattctc  | ctnacatgca | tcgtat      |             | 2566 |

<210> 245  
 <211> 1835  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 245   |             |            |             |            |             |     |
| ggcacgagag  | ccgccctggg  | tgtcagcggc | tcggctcccc  | cgcaacgtcc | ggccgtcgcg  | 60  |
| cagcctcggc  | acctgcaggt  | cgtgcgtcc  | cgcggctggc  | gcccctgact | ccgtccccggc | 120 |
| caggggagggc | catgatttcc  | ctcccggggc | ccctgggtgac | caacttgctg | cggtttttgt  | 180 |
| tcttggggct  | gagtgccttc  | gcgccccctc | cgcgggcca   | gctgcaactg | cacttgcccg  | 240 |
| ccaaccggtt  | gcaggcgggtg | gagggagggg | aagtgggtgct | tccagcgtgg | tacaccttgc  | 300 |
| acggggagggt | gtcttcatcc  | cagccāggg  | agggtgccctt | tgtgatgtgg | ttcttcaaac  | 360 |
| agaaagāaaa  | ggaggatcag  | gtgttgtcct | acatcaatgg  | ggtcacaaca | agcaaacctg  | 420 |
| gagtatcctt  | ggtctactcc  | atgcctctcc | ggaacctgtc  | cctgcggctg | gagggtctcc  | 480 |
| aggagāaaga  | ctctggcccc  | tacagctgct | ccgtgaatgt  | gcaagacāaa | caaggcāat   | 540 |
| ctaggggcca  | cagcatcaaa  | accttagaac | tcaatgtact  | ggttcctcca | gctcctccat  | 600 |



|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| cctgccgtct  | ccaggggtgtg | ccccatgttg | gggcaaacgt  | gaccctgagc  | tgccagtctc  | 660  |
| caaggagtaa  | gcccgcgtgc  | caataccagt | gggatcgga   | gcttccatcc  | ttccagactt  | 720  |
| tctttgcacc  | agcattagat  | gtcatccgtg | ggctctttaag | cctcaccaac  | ctttcgtctt  | 780  |
| ccatggctgg  | agtctatgtc  | tgcaaggccc | acaatgaggt  | gggcaactgcc | caatgtaatg  | 840  |
| tgacgctgga  | agtgagcaca  | gggcctggag | ctgcagtggg  | tgctggagct  | gttggtggta  | 900  |
| ccctggttgg  | actgggggtt  | ctggctgggc | tggtcctctt  | gtaccaccgc  | ggggcaagg   | 960  |
| ccctggagga  | gccagccaat  | gatatcaagg | aggatgccat  | tgctccccgg  | accctgccct  | 1020 |
| ggccaaagag  | ctcagacaca  | atctccaaga | atgggacct   | ttcctctgtc  | acctccgcac  | 1080 |
| gagccctccg  | gccaccccat  | ggccctccca | ggcctgggtg  | attgaccccc  | acgcccagtc  | 1140 |
| tctccagcca  | ggcctgccc   | tcaccaagac | tgcccacgac  | agatggggcc  | caccctcaac  | 1200 |
| caatatcccc  | catccctggg  | gggttttctt | cctctggctt  | gagccgcatg  | ggtgctgtgc  | 1260 |
| ctgtgatggg  | gcctgcccag  | agtcaagctg | gctctctggg  | atgatgacct  | caccactcat  | 1320 |
| tggtctaaagg | atttgggggtc | tctccttcct | ataagggtca  | cctctgcac   | agaggcctga  | 1380 |
| gtcatgggaa  | agagtcacac  | tcctgacctt | tagtactctg  | ccccacctc   | tctttactgt  | 1440 |
| ggccaaacca  | tctcagtaag  | acctaagtgt | ccaggagaca  | gaaggagaag  | aggaagtgga  | 1500 |
| tctggaattg  | ggaggagcct  | ccacccaccc | ctgactcctc  | cttatgaagc  | cagctgctga  | 1560 |
| aattagctac  | tcaccaagag  | tgaggggcag | agacttccag  | tcactgagtc  | tcccaggccc  | 1620 |
| ccttgatctg  | tacccacccc  | ctatctaaca | ccacccttgg  | ctcccactcc  | agctccctgt  | 1680 |
| attgatataa  | cctgtcaggc  | tggtctgggt | agggttttact | ggggcagagg  | ataggggaatc | 1740 |
| tcttattaaa  | actaacatga  | aatatgtgtt | gttttcatttg | caaatattaa  | ataaagatac  | 1800 |
| ataatgtttg  | tatgaaaaaa  | aaaaaaaaaa | aaaaa       |             |             | 1835 |

<210> 246  
 <211> 661  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaattcggca | cgaggggaaa | aggatgctga | acgagagcag  | aaagcctctt | tcctttgctt | 60  |
| cacgcctttc | cagtctttat | tttaaactcg | ggttcccttt  | ctgtggctgc | agcaaccttt | 120 |
| actccacctg | cactgctgct | cctgggggct | ccccaggcct  | ccctctgcct | ttctaccacg | 180 |
| tggtctgacg | gatgcctgtc | ttgcctggac | gcaccactgc  | tctcctgtcc | ctcaccttgg | 240 |
| cttttgcctg | gccctgctct | ggggttgaag | ctggcccatgt | gtcccccg   | agtcatggct | 300 |
| gctcctcctg | ggaggcctct | gtgtgcgtca | cgtcttccac  | acctgggggc | agctggcgag | 360 |
| ccgtgctct  | gttccccctg | gctgcttggc | acagagytgc  | agcctgggag | tctccgtgga | 420 |
| cccagactgg | ggatttttgc | aggggggcga | tgggaggagc  | aggtgctttg | cctggcggtc | 480 |
| gtgtctgcat | ttctggacgc | cccagagcac | agaagttgcc  | ggcactttga | ggtcttctc  | 540 |
| ggcatgtgcc | agattacatg | agtacggct  | gggaatatgt  | tttctttttt | gtaatggagg | 600 |
| cgtgtttcac | atatagtaaa | gctcaccaaa | aagtaaaaaa  | aaaaaaaaaa | aaaaaactcg | 660 |
| a          |            |            |             |            |            | 661 |

<210> 247  
 <211> 1378  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agacgtgaaa | catgtgaaca | ctcaagtga  | gcaaaagcct | tccatgatta | cccttttatg | 60  |
| tcacctcggt | accctggagg | tccaaggccc | ccattgagga | tacctaatca | ggcacttgga | 120 |
| ggtgtccag  | gaagtcagcc | attactcccc | agtgggaatg | atccaactcg | acaacaagga | 180 |
| catccaaata | tgggtgggcc | aatgcagaga | atgactcctc | caagaggaat | ggtgccctta | 240 |
| ggaccacaga | actatggagg | tgcaatgaga | cccccaactg | atgcttttag | tgcccttgga | 300 |
| atgcttgaa  | tgaacatggg | tccagggtgg | ggtgacctt  | ggccaaaccc | aacaaatgcc | 360 |
| aattcaatac | catactctc  | agcatctcct | gggaattatg | taggtcctcc | aggagtgga  | 420 |
| ggccaccag  | gaacacccat | catgcctagt | ccagcagatt | caaccaactc | tggtgataac | 480 |
| atgtatactt | taatgaatgc | agtacctcct | ggacctaaca | gacctaat   | tccaatgggy | 540 |
| cctgggtcag | atggtcccat | gggtggatta | ggaggaatgg | agtcacatca | catgaatggc | 600 |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| tcttttaggct | caggagatat | ggacagtatt | tccaagaatt | ctcccaataa | tatgagcctg  | 660  |
| agtaatcaac  | cgggcactcc | aagggatgat | ggcgaaatgg | ggggaaatct | cttaaatcct  | 720  |
| tttcagagt   | agagttactc | ccctagcatg | acaatgagcg | tgtgatccat | taccaagtct  | 780  |
| cctcatgaaa  | accacagtga | gtcagccctt | cacagaacta | ctacggaaga | aaattattca  | 840  |
| tcacagtga   | cagttaaaca | aaggaatctc | agtcacacca | aaccaacctt | tttatttcct  | 900  |
| gctctctccc  | ctcttttgtg | aagaaagcgg | gtccaaatgt | gattcaaaca | actgtacgga  | 960  |
| gtggcatatt  | agaattgccc | taaactgaac | tgcaaataat | tatgtgtgta | tgtatatgtg  | 1020 |
| tgggaaagag  | aatgtactgt | atatgtgtat | gttatacaga | catatacaca | tacatacatt  | 1080 |
| gacccacagg  | acattgtaaa | atattatcac | atgacatctt | aagtagaaat | aagtagggac  | 1140 |
| ttttattcca  | tccttttttt | cagttttaca | ttttaattat | tacaagttgc | tcctgcccc   | 1200 |
| tcctgaact   | attttgtgct | gtgtatatca | ctgctttata | taagttattt | tttaagggtga | 1260 |
| actcagatgt  | tatggttttg | taaatgtctg | caatcatgga | taggaataaa | atcgcttatt  | 1320 |
| tgagagcttt  | cattaaaaaa | aaaaaaaaaa | aacttcgagg | gggggcccgg | taccaat     | 1378 |

<210> 248

<211> 1366

<212> DNA

<213> Homo sapiens

<400> 248

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ggcacgaggt  | tttcagcggg  | attattat   | gtgagtctaa  | cctagcgggt  | ggtcctggct | 60   |
| gtcacccgtg  | cttgggcggg  | atcaccacca | gcggctgccc  | gtacttgggc  | cgccacatga | 120  |
| ggacctgggc  | atcggtggca  | ttgggcttga | ccagggcgct  | gggcgggatg  | ggctcattct | 180  |
| tgctcaggat  | tttgggctgg  | tcctgggcga | tgggctcccc  | cagccgggcg  | cgctggccca | 240  |
| ggggccgggt  | gggggttcacc | tcgatgctga | gctgcatgcg  | ccagtgcagc  | gtctgcagga | 300  |
| tgatcatgtc  | ggtggtggag  | gtgttgggtg | ccaccagcca  | ggtggtgaag  | cttgggtccc | 360  |
| ggtagatggt  | ggtgagcttg  | gccacgttgc | tctcgctgac  | gggcacggcc  | catgtgacgc | 420  |
| tggggtaaaa  | gttgtcattc  | atgctgatga | tgaacttgga  | gtccctcttg  | gtggggccca | 480  |
| cgatggtgca  | ggtctctgtg  | gtgttgccgt | accaggggta  | gttcaccccg  | tcagagtcgc | 540  |
| tgatggcttg  | gatcttgccc  | tcctggaggt | cggggagctc  | ccagctggac  | atgccctgct | 600  |
| cgccgtactg  | gttgtagaac  | tcctatgtgc | tgcacgcctg  | gatccagcca  | actaccaag  | 660  |
| tctccttctt  | ggggatgggc  | ggcatgacca | cctggggccga | ggcccgggaag | tgggggtgtc | 720  |
| ggtagcggag  | caccacgctg  | gaggactcat | cgatgctagt  | ggggacggg   | tcgatggagg | 780  |
| ctttcacatc  | aatcacccgtg | atcccttccc | ggaagactct  | ggctttgect  | ccgatgctct | 840  |
| gaatacagcc  | catggcatac  | aggagcgtc  | tgatctccag  | ggaaggccag  | cagtcacaga | 900  |
| aaaaaccagg  | cattgaaagg  | acagaggctg | caggacccag  | tacagacggc  | gctgctctcc | 960  |
| aatctcaact  | ctcaagaccg  | atatccatag | gatagaaaac  | tcactgagta  | gactggggtt | 1020 |
| gcataatatca | ctaccgcggc  | ctgtttataa | ataaggattc  | tgctgcattt  | catgagccct | 1080 |
| gggctctctc  | ttcttctcct  | cgcagtggac | aaaaatcacc  | gatattcttt  | gggttaaaaa | 1140 |
| aagtttgtag  | tttaaatgaat | aattatgcgg | ttctgacatc  | cgcccttct   | gtgcctcaca | 1200 |
| cgcggggacg  | gcagctcgca  | gactctccct | gaagtcttcg  | gaggaagcag  | gcgagcgccg | 1260 |
| gcagactcat  | aaataaggaa  | ggctctgtcc | ccgcgcggcc  | gcgccaccct  | cgcggcagaa | 1320 |
| gcctgacttc  | ctgcctcccg  | gccttcgcga | cgcgtcccg   | gcacga      |            | 1366 |

<210> 249

<211> 715

<212> DNA

<213> Homo sapiens

<400> 249

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgagct | ttccctcagt | ccaatcttgc | aattgctatg | tcagtttcag | ttcacaataa | 60  |
| taccagtga  | gacatggctc | cttaagattt | tctccttttc | cctcacgcgg | gtcccaattc | 120 |
| taaatccca  | agggctgaca | tgattgacat | ttgccatagc | cgaggagg   | agcatttcct | 180 |
| tttgtggtct | ttccttggtt | tgttttattg | ggcagtgaat | ggcaagtctg | tctgtgtttc | 240 |
| tttgcttcac | cccaaacacc | ttggcaaaaa | tgaagcctt  | ctaatttagc | tgtgtcctcc | 300 |
| tttacttatg | tcaggaagcc | tgagccataa | cctttgatta | aaaaaatttt | tttttgtttt | 360 |
| ttgtttttga | gacaggggtc | tgctctgtca | cccaggctga | aatgcagtgg | cacgactgca | 420 |

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| gctcattgca | gccttgacct | caactggagtg | tagtggcatg | actgcagctc  | actgcagctc | 480 |
| caagtagctg | gcacttacag | gcagggtgcc  | ccatgcctgg | ctaattttta  | aattttttgt | 540 |
| agaaacaggg | tcttgctggc | tgggcacggt  | ggctcaacc  | tgtaatccca  | gcactttggg | 600 |
| aggccaaagc | gggcgatca  | cgagggtcagg | agtttgagac | cagcctggcc  | aacatggtga | 660 |
| aatcctgttt | ccactaaaaa | taccaaaaaa  | aaaaaaaaaa | aaaaaaaaaac | tcgta      | 715 |

<210> 250  
 <211> 711  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| <400> 250   |            |             |             |             |             |     |
| ggcacgagcg  | aagaccctgt | tcggaccctg  | ccccgattcc  | agactcaggt  | agatcgctcg  | 60  |
| cataccctct  | accgtggaca | ccaggcagcc  | ctggggctga  | tggagagaga  | tcaggatatcc | 120 |
| cccagggagt  | aggggctacc | ttgaggggat  | gatagacctc  | ccccactccc  | agtgkkactc  | 180 |
| tggaaatatg  | aaggaactag | ggagtgggaag | agatttaga   | gctggggaga  | ggagtccctc  | 240 |
| ccttcaaagc  | cagcaactgc | ctttggggaa  | tgctgggggg  | tctctccttt  | ctcctgcttg  | 300 |
| tgtkargtgg  | tacacagtcc | ccccttcacc  | tggcggggaag | ctgtcccgga  | cagactcatc  | 360 |
| tcagctttcc  | cttggggcag | gatcgggggc  | agcagctcca  | gcagaaacag  | caggatctgg  | 420 |
| agcaggaagg  | cctcgaggcc | acacaggggc  | tgctggccgg  | cgagtgggcc  | ccaccctct   | 480 |
| ggragctggg  | cagcctcttc | caggccttcg  | tgaagaggga  | gagccaggct  | tatgcgtaag  | 540 |
| cttcatagct  | tctgctggcc | tggggtggac  | ccaggacccc  | tggggcctgg  | gtgccctgag  | 600 |
| tgggtggtaaa | gtggagcaat | cccttcacgc  | tccttgccca  | tgttctgagc  | ggccagcttg  | 660 |
| gcctttgcct  | taataaatgt | gctttatttt  | caaaaaaaaa  | aaaaaaaaaac | t           | 711 |

<210> 251  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| <400> 251   |            |             |             |            |            |     |
| ggcacgagtg  | ccagtgtccc | gtgccctcca  | gtgtcaaaga  | tttggggcac | tgcccgtcga | 60  |
| aatgaaaagg  | ttggtgtcca | gcctctggag  | cctcacctgc  | agggcgctcc | cagctaacac | 120 |
| ccatccacgc  | accacctcca | ggacgagaac  | ccttgatgtc  | aaaaccaagt | gccagtgga  | 180 |
| ggcgggtgaag | ctctcggaag | tgctgccacc  | tggtgtgagg  | cgggtctgaa | ctcgagggag | 240 |
| tcggagctca  | gctgtcgggt | ttaaagagaca | tgagggggac  | cgggctgccg | ccctcagcct | 300 |
| gcattcctgt  | gcgcaatcga | ttccgcaatg  | acagcacctt  | actccttcct | gcggcagggt | 360 |
| cacccttgcc  | tgtgggatgt | tgtgagagga  | acatgagcca  | gacaaagact | tggctcaggg | 420 |
| ctccgtggaa  | caagccagga | tgacagggga  | gctggggggag | ccccascct  | ggggcagccc | 480 |
| agcaggccgc  | tgaacaaaca | ccccagaagc  | cagcactgtg  | gcagggtgct | ggggagatgc | 540 |
| ccctctgagc  | cttcctcccc | cctcagacct  | gaatgcaccc  | cacagttggg | ggctgccct  | 600 |
| gcccactccc  | ctggtaatgc | ataaaagggg  | aggggaaggt  | tccctggggc | ttgagctccc | 660 |
| tctgtggagg  | tgaggagggg | agattcgtt   | cacatcccag  | gaggggcaaa | atgactgatg | 720 |
| tatttttatg  | tatctacaca | gagagtgcac  | tttctctcca  | gagatgctgt | ctggttaaca | 780 |
| aaggaataac  | ttaagaaatt | gattgattat  | cttaataaac  | tgtgcaaacc | caamrrraaa | 840 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaact | cgtag       |            |            | 875 |

<210> 252  
 <211> 890  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (818)..(819)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (829)..(829)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (859)..(859)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (887)..(887)  
 <223> n equals a,t,g, or c

<400> 252  
 cttgtaaatg tttcttttcc cttaaataca gataattcat ttgtattgct tattttatta 60  
 tgagctacaa caaaaggact tcaggaacaa gtaatgtatt agtatgttc aagattgttg 120  
 ataggaactg tctcaaaagg atggtgggta ttttaaataa aaatagctaa tgggggtggg 180  
 aggcctataa aattaaatgc cttgtataaa atccaaaatg aatgcaaaat tgttttcaact 240  
 tgtattgact ttatgttgta tgattccaat ctctgttctg tttggcactt gtatttaatt 300  
 cttcaccttt gtaagacatt tgtatattgt ggatgtgttc attcaagcta tttaatatct 360  
 ggcactgtta atacacagta ctttatttga cagactgttt tactgtttta attgtagttc 420  
 tgtgtacttt ttttggatgg ggctggcatg ttttctttgt ttcttggaac tacgacgtgg 480  
 gaatttcaat gcgttttgtt gtagatgcta acgtgtcagaatcctttaca ttcaactttt 540  
 ctaagaaaag cattttcagt cttgtagtgt gtgcttacag taactaattt tgttgaaaat 600  
 ggtttcaagt tattcaaatt tgtacaggac tgtaaagatt tgttgacagc aaaatgttga 660  
 agaaaaaagc ttatagaata aaagctataa agtatatatt aggatctgca aacaatgaag 720  
 aattatgtaa tatattgtac aaatgtaagc aaaggctctg aaataaaatg ccatagtttg 780  
 tgaaaaaaa aaaaaaaaaa actcgagggg gggcccgnaa cccaatcgnc caaaagtgag 840  
 tcgtattaca attcactgng ccgtcgttta caacgtcgtg actgggnaaa 890

<210> 253  
 <211> 1050  
 <212> DNA  
 <213> Homo sapiens

<400> 253  
 ggcacgagct tttcagcatt tgatgggttg tgaccactcc cactttcaca gaaccctcat 60  
 caaacagcct tctatgatcc caaatgcaac tttctatcac atttttatgc tcttcttctg 120  
 cctactcatg aaaatgttgg ggccatccag gcttccattt ttagccctca ctttgtgcag 180  
 gtttataactt tattttcagt tttgttatct gatctctgac tccagcccag accattcctg 240  
 actccacatc cacatattca tctggccttg tgaataactt ctcttggaatg tacatgtgtg 300  
 ccttagactc attatgtgca gacatgaagt catctttttt ctctccagac ctgcttttcc 360  
 tctcgtattc ttcttttttg tgaatgggtac aatatttcag atggaacgtc caagtcaaaa 420  
 gtcgttctag aatcctccct cactcctaatt gccacatcca attagtgacc aaatcctatc 480  
 gattcggcct tctaaatata gtcaaaacat ttcattcaat tcagcgtcac tgtcattgct 540  
 ttaatgtaga ccttctctat tttaccatga tcaagcagag gccctgtatc tatattcttc 600  
 tgccttccag tcttgtcatc ctactccgca gttaatcccc tgagtgtctat cctagtgatc 660  
 cttctaacag tacagatttg gtcattggatt ctccagcttg aaatacttca tgtcttttgt 720  
 gggaacatgg atggagatgg aggctattat acttagcaaa caaatgcatg aacgaaaacc 780  
 aaataccaca tgttcttact tataagtgg agctaaatgc tgacaactca tgaacacaaa 840  
 caaatgaaca gcaaacactg ggggtctactt gaggggtggag tttgggagga gggagagaag 900  
 cagaaaagg tactgaactt aatacctggg tgattaaata atctgttcaa 960  
 caggccccc tgatatgagt ttacctactg aacaaacctt cacatgtatc cccaaaccta 1020  
 aaataaaagt taaaaaaaaaa aaaaaaaaaa 1050

<210> 254  
 <211> 1161  
 <212> DNA  
 <213> Homo sapiens

<400> 254  
 ggggaaacgg agctctgggt gtgatatttc ctctgcattt tcctgtcggg gtgggtgaaat 60  
 aactgggtttg aaccaggtcc actggactcg aaagctcatg ctcagaagcc ccaggggtcc 120  
 ctctaacttt cttggttgct gcaactcaga gagcgctgga atggaccagc ggcatgctcc 180  
 tcatctcagc gggttcaggtt ttcattcttc tatctccatc cttctattta attctgtact 240  
 tactaagacc tgggggtaca gggaggggct tggagcctat ttgcccagct gctgaatgg 300  
 gaggttggag agatggatac ttatggctcc agtaccagga gccaaactgtt tcccttgaca 360  
 actggggaaa ctgaggccca cagagccaag gccacttgcc cgtggttacc taaagatgtt 420  
 aacgagaaat ccgggtctgg aactcagatc cctttgtatc ctgtttcggg gttggtgtag 480  
 tttgttgctt tccctaagat gagcccagat agggaaactg aagtgcctgg gctcctggtt 540  
 gggctctctg cggggagaga atggcgattc aactcccgtg tactgttgaa cttgacacaa 600  
 acacgctcac atcccaggct gcatacgtgt tttgctttag aaatgacatg aagccttttg 660  
 actattttta agagaaaggc aatggctgtg atatttcccc tgcacctccc tctggggcc 720  
 acttggttaa atgtcaggaa agggagagta tttcctggtc aggaacattc agagcttgct 780  
 gggagctgaa gttttgtttt ccattaagta ggtattcggg gagtctattt cctctgcct 840  
 cctctgtttc cctggaarct tgcgcttgac agttgcaggg aggaggggtt tgagaatgag 900  
 cagccgagat gccacgcat cgcggtgccg ctctaggagt ggcgggggtg ctatttttag 960  
 ccacctgat tcagtagagg catttcagcg tttgttcaat atttaattat ccacttgaaa 1020  
 ttggcccatg tggccttcag tttggaagca gctctctgtg ctgtgatttc ccagttgcat 1080  
 aaataaggaa gtcaaggga tctcaatagc cctccaaata ataataaga aaaaaaaaaa 1140  
 aaaaaaactc gacggcacgt a 1161

<210> 255  
 <211> 1002  
 <212> DNA  
 <213> Homo sapiens

<400> 255  
 ggcacgagcc cagcgggaagc caagccacca ggccccccag cgtccacgcg gagcatgaac 60  
 attgaggatg gcgcgtgccc gcggctcccc gtgccccccg ctgcgcgccg gtaggatgtc 120  
 ctggccccac ggggcattgc tcttctctctg gctcttctcc ccacctctgg gggccggtgg 180  
 aggtggagtg gccgtgacgt ctgccgcggg aggggggtcc ccgccggcca cctcctgccc 240  
 cgtggcctgc tcctgcagca accaggccag ccgggtgatc tgcacagga gagacctggc 300  
 cgaggtccca gccagcatcc cgggtcaacac gcggtacctg aacctgcaag agaacggcat 360  
 ccaggtgatc cggacggaca cgttcaagca cctgcggcac ctggagattc tgcagctgag 420  
 caagaacctg gtgcgcaaga tcgaggtggg cgccttcaac gggctgcccc gcctcaacac 480  
 gctggagctt tttgacaacc ggctgaccac ggtgccacag caggccttcg agtacctgtc 540  
 caagctgcgg gagctctggc tgcggaacaa cccatcgag agcatcccct cctacgcctt 600  
 caaccgcgtg cctcctgctgc ggcgcctgga cctgggcgag ctcaagcggc tggatacat 660  
 ctcgaggcgg gccttcgagg ggctggtcaa cctgcgctac tcaacctgg gcatgtgcaa 720  
 cctcaaggac atccccaaac tgacggccct ggtgcgcctg gaggagctgg agctgtcggg 780  
 caaccggctg gacctgatcc gcccgggctc ctccagggt ctcaccagcc tgcgcaagct 840  
 gtggctcatg cacgcccagg tagccaccat cgagcgcaac gccttcgacg acctcaagtc 900  
 gctggaggag ctcaacctgt cccacaacaa cctgatgtcg ctgccccacg acctcttcac 960  
 gccctgcac cgctcagagg gggggcccg tacccaattc gc 1002

<210> 256  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (3)..(4)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<400> 256  
 tanntgnatc cccccgggcn tgccaggaat tccggcagag ttacaactgg tggaccacac 60  
 accaggcact aatcacctgg tgaggatttg gcatatccac caaaaaatgc atccgattta 120  
 accaaccatct ccaccagcgc tacggactcc tcccaattct gacatctctt gcagacaata 180  
 ctatgctctc tacacactgt ttagaaatgg aaaggtgatc tgcactgtat cttgggtttg 240  
 ttggctatgc ttcctttgat gacatatatt atacagata tatatacata tatttwwwww 300  
 gttagagttc tagccatttt atttctccgc agggctcctt ctcagacatt actgcatgct 360  
 gtatatggcg ttagctgtgt gttgatcttc taaaagatga tagagtttac tggtaattgt 420  
 gtaatcagct cctgcctttt tattttcttg ggttatttac atgtcagaga catttataaa 480  
 aagtgaagg ataaaaaaaa aaaaaaaaaa ctgca 515

<210> 257  
 <211> 1113  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (349)..(349)  
 <223> n equals a,t,g, or c

<400> 257  
 gttggtgttg agcacagctt taggcttaga ttctcatca actaggagaa gctgtgcttc 60  
 aatacagtta ttcgtttgca tggttcctaa tgtgcttcac tcaatttagc agaatttttt 120  
 ttttaacctc ttccttgacg cttagctgctt gtgcaaatca catcttggcc gcctactctt 180  
 cttcacttgc tgacagatgt gtaggtgaga aaagtctcat agtcattgtt cctgaaagaa 240  
 gcttccagac ccacttctag ggccagtgc atatgcagga aatcagctgc ttctgggcca 300  
 ggacagagct ggtctttttt ttagtggggg atggcgggca gtggggcang ggacattcaa 360  
 aatttatttt ccaacagaca gatagcatca gcaggtacaa ctacaagggt atctacatag 420  
 atcatacatt cacaaggcat tattagtca acagtgagaa agccactcgt gggttttctg 480  
 taacaatatc ccacttcata gtgtaaacag gtactatttt gtccacttac aattccggaa 540  
 ggaagggcac accttgacag ggggaagaaa aggggaatcc taaagtaagg tgcaacaatt 600  
 aagagacaac actttggcta acaatcttgg atccacattt cagtcagggc cttccacat 660  
 gaggggaaag acttttctct cagaagttag aatctttctt cctcctttct tgttaaactg 720  
 agagcagtgt tttgtttgct caatattaca tgtacaaaag gagattagaa gaaaatgcat 780  
 cacaaaacca tcttgaacgt tcagctcttc ctgccaatat atcacaactc ttaggtttta 840  
 gacggggcct gggaatacgt aagtgttttt tctttttttt ttttttaagt gaaagcaagt 900  
 ttattacgaa agcaaaggga taaaagaatg gctgctccat aggcagagag cagcccagta 960  
 atcttaaaat agggaaatag acactatggc tacaaaaaat aaaaaataaa tgaggtagat 1020  
 aaaattttca caccaggac ttgcctgttc caacttcata gtcttcatga aaattcatc 1080  
 aagaagacaa aaaaaaaaaa aaaaaacctc gta 1113

<210> 258

<211> 1668

<212> DNA

<213> Homo sapiens

<400> 258

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| aatttcgaac | accataaaa   | ttgtaaagaa  | ttgtacagta | cattttaaca | tattkgcttg  | 60   |
| ttacaaycta | tacatttwaw  | gtttttaac   | cacttcaaag | taagtttcag | acaccaaac   | 120  |
| atTTTTTaa  | tgatccctac  | cattttttaa  | atgatcccta | ccaaaatgga | aggctggtat  | 180  |
| cccaagggtt | tgttccattt  | ctcaattcta  | gtctgtgaaa | ttgargtctg | atgaccactc  | 240  |
| ttaagrsggc | tgttcattag  | ggkgcgggct  | gggcattatg | agtgtgtttt | tgtgagkca   | 300  |
| gtggaaggag | gggcttggtg  | tgagcagtg   | atgagaaaaa | cggcttggtg | ttgcttcttt  | 360  |
| ttccagctct | gtggccttg   | tcaggttacg  | tctcttcagt | atcgtaactg | taatgtggag  | 420  |
| ataaagcctt | cattagttag  | gggcacacac  | cgcagtattc | cttaagtcac | cttgatgaca  | 480  |
| agtgaatgca | aggcagttg   | tacctttcag  | gtagtgttg  | aattcaggtg | gtattgttca  | 540  |
| gttttttttt | ttcccttcat  | gttctaagac  | cagctgagag | gcaaagtgtg | accactgagc  | 600  |
| tctagtgtgt | gttacctaaa  | aagsccttgt  | tttaaatttc | tgtgatacct | aagaatttca  | 660  |
| aatctgggtt | gtcatggatt  | ctttattctt  | ttttctctcc | ttaaaagtt  | acatttttaga | 720  |
| tgaaatcccc | tttyttaaaa  | tgggcaaagc  | aataattcta | catcatttct | ccccttccct  | 780  |
| tccacttggt | tagactaaga  | tatgttagag  | agggaaagg  | tcgttggttt | agtaaatact  | 840  |
| attgctgttg | agagcttaat  | actattgctg  | ttgacatgtt | tactgatggg | ctgtgttcca  | 900  |
| taattttgtt | ttaggtcttt  | tgtttgaaac  | agtttactgt | ttttatcagt | tttggctcct  | 960  |
| aatttttctt | aacctacagt  | ttttctctga  | gtacatatgg | tttcattgtt | tgatctactt  | 1020 |
| tctatctatc | tgaatatgaa  | cttctaggat  | catgtttatt | ctagtagatg | atgacttaaa  | 1080 |
| gcctgcagta | taggagggac  | aacgtcaact  | actgcatgtg | aataacaag  | cttgaaggga  | 1140 |
| agctaaatgt | ttgttacaaa  | tttaagacag  | tattttaatg | ccgtttgcat | ttttctaaga  | 1200 |
| atTTTctata | aagctaattc  | tgktattttt  | tgtctctaaa | ttagggaact | gtccaggttt  | 1260 |
| attgctgccg | ggagactaca  | ctgcaaaaata | gataaagtga | atgaaatagt | agaaaccaac  | 1320 |
| aggtaactct | atttctcaga  | ataagggggc  | attcctaaat | tttaaaagta | ggkcaactat  | 1380 |
| tgkcatggaa | taatgtgact  | ggtaataaat  | tcattttttc | ttgaatttat | ttatagacct  | 1440 |
| gatagcaaga | actggcagta  | ccaagaaact  | atcaagaaag | gagatctgct | actaaacaga  | 1500 |
| gttcaaaaac | tttccagagt  | aattaatatg  | taaagcatg  | taactaacia | aggatttgct  | 1560 |
| ttagagataa | ttattttggaa | tttttatagc  | ttacttcaca | atgtgcccag | gtcagctgta  | 1620 |
| taaaataaat | actgcattgt  | tgttaaaaaa  | aaaaaaaaaa | aactcgta   |             | 1668 |

<210> 259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 259

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggcacgagtg | caggaattcg | tgtgccggat | ttggtttagct | gagcccaccg | agaggcgcct | 60  |
| gcaggatgaa | agctctctgt | ctcctcctcc | tccctgtcct  | ggggctgttg | gtgtctagca | 120 |
| agaccctgtg | ctccatggaa | gaagccatca | atgagaggat  | ccaggaggtc | gccggctccc | 180 |
| taatatttag | ggcaataagc | agcattggcc | tggagtcca   | gagcgtcacc | tccagggggg | 240 |
| acctggctac | ttgccccga  | ggcttcgccg | tcaccggctg  | cacttgtggc | tccgcctgtg | 300 |
| gctcgtggga | tgtgcgcgcc | gagaccacat | gtcactgcca  | gtgcgcgggc | atggactgga | 360 |
| ccggagcgcg | ctgctgtcgt | gtgcagccct | gaggtcgcgc  | gcagcgcgtg | cacagcgcg  | 420 |
| gcggaggcgg | ctccagggtc | ggaggggttg | cgggggagct  | ggaaataaac | ctggagatga | 480 |
| tgatgatgat | gatgatggaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaa       |            |            | 575 |

<210> 260

<211> 1532

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1412)..(1412)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1433)..(1433)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1446)..(1446)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1505)..(1505)  
 <223> n equals a,t,g, or c

<400> 260  
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 gaaaaggccg aggcacgagc gtgtgaagac cgcaaagacg atcccgagta cagttgtgaa 120  
 cagcattgct gctaggctcc tcctgcagat catctgaaat gaacctctct tattgatttt 180  
 tattggccta gagccaggag tactgcattc agttgacttt cagggtaaaa agaaaacagt 240  
 cctggttggt gtcatacataa acatatggac cagtgtgatg gtgaaatgag atgaggctcc 300  
 gcaatggaac tgtagccact gcttttagcat ttatcacttc ctcttact ttgtcttggt 360  
 atactacatg gcaaaatggg aaaggtaagg aaaatgactc ggaaaatgtg catgaaatgt 420  
 actagggttt ttgcttggtt aagggtgccta aatgcttagg tcaaataccc tggcaatctg 480  
 catgttacat gctatctgct ggcagtttct ttctgatata aaaatgaaac agtattcttg 540  
 gacagaggac acagaatttc taattccagt ggggcttggt ttgctttcag tttcttataa 600  
 ttgtacttgg agaaacagat actgatcagt gttttatatt ctaaaagaca gccaaagtga 660  
 ataataaaga ctttcgtttt ggcattttgt tctttttact aaacataatt aagtgtttaa 720  
 taagcttcct tgtaccgagt gttgcataaa acactttaa ggacacaatt agtgccttcg 780  
 tgagatttac atgctaatta tgctaaygat tgggtgctat gtagttaatg atttaaaactg 840  
 catgcattga cagattactc cttaggcaaa agtatttaag aagggataag tagaaattct 900  
 gattggaata ttaaaacatt ttttaaaaaa taattatgkt tagactgktg aaccgkgtta 960  
 tataatttta ggataawgga ttwatttgct tttttttttt ttaagagaaa ctacttgaag 1020  
 taaattccta cccatacttc ttacttgtct cctttccttt gattaatcta aggaatgktg 1080  
 atgatgagaa gaaagatgga aatgttgagg tgggtgcata tttggtttgt tagaatatct 1140  
 gtcacacact gggctwtttg aagctgctgt tctgatgtt gttttattga ctcatgaaga 1200  
 caactgaaaa gattgctttg taaccttatt tttttctgat gtgtgtttac atccatgtct 1260  
 atatatacat attgcatatg tatatatctg tatgtgcatg tatatgttaa aaatctgata 1320  
 taagtgaaaa catgctctgt gctttgaaac aaaaaaaaaa aaaaaaaact cgaggggggg 1380  
 cccggtaccc aattcgccct atagtgagtc gnattacaat tcaactggccg cgnntttacaa 1440  
 cgtcgngact gggaaaaccc tggcgttacc caacttaatc gccttgagc acatccccct 1500  
 ttcgncagct ggcgtaaatag cgaagaggcc cg 1532

<210> 261  
 <211> 1192  
 <212> DNA  
 <213> Homo sapiens

<400> 261  
 ggcacgagaa gaagtgtgtt ggaaaccgtc aggccatgaa ccaggctgac cctcggctca 60  
 gagcagtgtg cttgtggact ctacacatctg cagccatgag cagaggcgac aactgcacgg 120  
 atctactcgc actgggaatc cctccataa cccaggcctg gggactgtgg gtctcttag 180  
 gggctgtgac gctgctatct ctcatctcgc tggctgcaca cttgtcccag tggaccaggg 240



|            |            |            |             |             |             |      |
|------------|------------|------------|-------------|-------------|-------------|------|
| gccggagcag | gagccatccg | gggcagggac | gctctggaga  | gtctgtggaa  | gaggtcccgc  | 300  |
| tgtatgggaa | cctgcattat | ctacagacag | gacggctgtc  | tcaagacca   | gagccagacc  | 360  |
| agcaggatcc | aactcttga  | ggccdgcca  | gggctgcaga  | ggaggtgatg  | tgctatacca  | 420  |
| gcctgcagct | gcggcctcct | cagggtcgga | tccccggctc  | tggaaccccc  | gtcaagtact  | 480  |
| cggaggtggt | gctggactct | gagccaaagt | cccaggcctc  | gggccccgag  | ccggagctct  | 540  |
| atgcctcagt | atgtgccag  | acccgcagg  | cccgggcctc  | cttcccggat  | caggctatg   | 600  |
| ccaacagcca | gcctgcagcc | agctgagatg | gagggcctgg  | cacagcgggg  | cgtgcaactgc | 660  |
| cccagccccc | cgtagcagg  | gcatgactgt | ttcccaacca  | gcacccaaag  | acgggcgcca  | 720  |
| ttgccaagtc | acaggatgtg | atctacccc  | gacttccctat | ctgagcttca  | agggagacat  | 780  |
| ctcagggcaa | agctttcgtg | atggaggagg | caaagacagt  | agccccctcc  | ttatttcttt  | 840  |
| tttctatctg | ttcctcttag | cccccaaact | cccaggttct  | cacttccctc  | ttctggagtt  | 900  |
| taaccagatc | ctccccaccc | ccgctccctc | atagtctacc  | cccacgcctc  | agtgtctcct  | 960  |
| caggcacagg | aagtgggcgg | tgggggagg  | gtaagggcct  | gacagtgggtg | gggtgggtat  | 1020 |
| attcctcagg | agtcacaga  | ctggagtga  | cctggaaact  | agagacggga  | gggacccgag  | 1080 |
| cctggctttt | gacctaagaa | ccctagcagg | agaatacagt  | ctccatcctg  | ctgtctctgt  | 1140 |
| cctgtcccca | agttttcaaa | taaaactttc | caaaaagtga  | aaaaaaaaaa  | aa          | 1192 |

<210> 262  
 <211> 1559  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1445)..(1445)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1551)..(1551)  
 <223> n equals a,t,g, or c

|             |             |             |                     |             |            |      |
|-------------|-------------|-------------|---------------------|-------------|------------|------|
| <400> 262   |             |             |                     |             |            |      |
| atccagcagt  | ggggagacag  | cgtgctgggc  | aggcgtgccgagaccttct | cctgcagctc  | 60         |      |
| tacctacagc  | ggccggagct  | gcgggtgccc  | gtgcctgagg          | tcctactgca  | cagcgaagg  | 120  |
| gctgccagca  | gcagcgtctg  | caagctggac  | ggactcatcc          | accgcttcat  | cacgctcctt | 180  |
| gcggacacca  | cgcactccc   | ggcgttggag  | aaccgagggg          | cggatgccag  | catggcctgc | 240  |
| cggaaagctgg | cgggtggcgca | cccgtgctg   | ctgctcaggc          | acctgccc    | gatcgcgcg  | 300  |
| ctcctgcacg  | gccgcaccca  | cctcaacttc  | caggagttcc          | ggcagcagaa  | ccacctgagc | 360  |
| tgcttcctgc  | acgtgctggg  | cctgctggag  | ctgctgcagc          | cgcacgtgtt  | ccgcagcgag | 420  |
| caccaggggg  | cgtgtggga   | ctgccttctg  | tccttcatcc          | gcctgctgct  | gaattacagg | 480  |
| aagtccctcc  | gccatctggc  | tgccttcac   | aacaagtttg          | tgcagttcat  | ccataagtac | 540  |
| attacctaca  | atgccccagc  | agccatctcc  | ttcctgcaga          | agcacgccga  | cccgtccac  | 600  |
| gacctgtcct  | tcgacaacag  | tgacctgggtg | atgctgaaat          | ccctccttgc  | agggtcagc  | 660  |
| ctgcccagca  | gggacgacag  | gaccgaccga  | ggcctggacg          | aagagggcga  | ggaggagagc | 720  |
| tcagccggct  | ccttgccct   | ggtcagcgtc  | tcctgttca           | cccctctgac  | cgcggccgag | 780  |
| atggccccct  | acatgaaacg  | gctttcccgg  | ggccaaacgg          | tggaggatct  | gctggaggtt | 840  |
| ctgagtga    | tagacgagat  | gtcccggcgg  | agacccgaga          | tcctgagctt  | cttctcgacc | 900  |
| aaactgcagc  | ggctgatgag  | ctcgcccgag  | gagtgttgcc          | gcaacctcgc  | cttcagcctg | 960  |
| gcctgcgct   | ccatgcagaa  | cagccccagc  | attgcagccg          | ctttcctgcc  | caggttcag  | 1020 |
| tactgctgg   | gcagccagga  | ctttgagggtg | gtgcagacgg          | ccctccggaa  | cctgcctgag | 1080 |
| taogctctoc  | tgtgccaaga  | gcacgcggct  | gtgctgtcc           | accgggctt   | cctgggtggc | 1140 |
| atgtacggcc  | agatggaccc  | cagcgcgcag  | atctccgagg          | ccctgaggat  | cctgcatatg | 1200 |
| gaggccgtga  | tgtgagcctg  | tggcagccga  | ccccctcca           | agccccggcc  | cgtcccgtcc | 1260 |
| ccggggatcc  | tcgaggcaaa  | gccagggaag  | cgtgggcgtt          | gctggctctgt | ccgaggaggt | 1320 |
| gagggcgccg  | agccctgagg  | ccaggcaggc  | ccaggagcaa          | tactccgagc  | cctgggggtg | 1380 |
| ctccggggccg | gccgtggca   | tcaggggccc  | tccagcaagc          | cctcattcac  | cttctgggcc | 1440 |

|            |            |            |           |            |           |      |
|------------|------------|------------|-----------|------------|-----------|------|
| acagnctgc  | gcgagcggc  | ggatcccccc | ggcatggcc | tggtgtggt  | ttgagaaa  | 1500 |
| cgacctgaac | tgtcaaaaaa | aaaaaaaaaa | aaaccgrgg | gggggcccgg | nacccaatt | 1559 |

<210> 263  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| <400> 263   |            |            |             |            |            |      |
| gtaattcctt  | aaacatacca | tctgtcacag | ttaatctaga  | tttgtaaata | ggtagtaatt | 60   |
| tatagaat    | ttaaagcgta | aaaccggta  | atattaaaag  | ataggtaa   | ctaggcctgg | 120  |
| aaagctgtta  | tttggctaaa | attgcacagg | aggccatgaa  | cagaggcaag | tgccccagag | 180  |
| actccacttt  | cattccta   | tgttctcaaa | ttaatgctca  | tgattgagta | ttctcagtgc | 240  |
| aactcgtaga  | gtttgataag | taaaagttac | atgcccctgt  | tttctagca  | tgaattcac  | 300  |
| tgttatcaaa  | gacaagaggc | agaccattca | ttcatttctca | aaacactgaa | tgccattctg | 360  |
| tgccctagtgc | tatacaaggc | atgggagatt | cagtgtgaat  | aagtccttgc | tctccaccta | 420  |
| acaagggaca  | gttttaatta | tagattgtct | tcctattaag  | tatgagttt  | agtaggcatt | 480  |
| aaaaatcgta  | attagtttga | taatatgaga | cccaacccta  | acttgccaga | agagtaatca | 540  |
| gttcatgaac  | cattgatatt | tcctgtatat | ttcatgaatg  | tgacttcagt | cattctagt  | 600  |
| ttaataactgt | ggaatgtcat | tggtgtagca | acgtgggttc  | acaaaaacac | ctttttatac | 660  |
| aaaagacaga  | tgyltgatt  | aaagagatta | aaggatagag  | tattctgtt  | ctttgtttt  | 720  |
| atttggtctt  | taggtattaa | aataaggccc | agatcactaa  | aaattagtaa | cagagggaga | 780  |
| cctctaatag  | atttaaagtc | agttaattct | ctctgaaatt  | tgatgttttc | ttctataaag | 840  |
| aataactcta  | aataggcat  | cttcccagga | ctttccattc  | tcaggaaaag | acctagttac | 900  |
| gtataaaaaa  | taacttctac | tgctttatgt | agtcatatag  | gtctgcctaa | aataagaatt | 960  |
| tgtattta    | aaataccaaa | attttcaa   | ggtataaaaa  | aaaaaaaaaa | aaaggggggg | 1020 |
| c           |            |            |             |            |            | 1021 |

<210> 264  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (32)..(32)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (713)..(713)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 264  |            |             |            |            |            |     |
| gtgntcccc  | cggntggcca | ggattcggca  | cngggcgctg | gocgccttcc | agctgctcaa | 60  |
| cctgactggg | caacgtgggg | ctcttcctgc  | gctcgatcc  | cagcatccgt | ggcgtgatgc | 120 |
| tgccggccg  | cggctctggc | cagggtctggg | cttactgca  | ccaatgccaa | agccaggtgc | 180 |

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| cgccacgcag | cggacactgc  | tctgcctgcc | gcgtctgcat | cctgcgtcgg | gaccaccact  | 240  |
| gccgmctgct | gggccgctgc  | gtgggcttcg | gcaactaccg | gcccttcctg | tgctgctgc   | 300  |
| ttcatgccgc | cggcgtcctg  | ctccacgtct | ctgtgctgct | gggccctgca | ctgtcggccc  | 360  |
| tgctgcgagc | ccacacgccc  | ctccacatgg | ctgccctcct | cctgcttccc | tggtcatgt   | 420  |
| tgctcacagg | cagagtgtct  | ctggcacagt | ttgccttggc | cttcgtgacg | gacacgtgcg  | 480  |
| tggcggtgct | gctgctgtgc  | ggggctkggc | tgctcttcca | tgggatgctg | ctgctgcggg  | 540  |
| gccagaccac | atgggagtg   | gctcggggcc | agactccta  | tgacctgggt | ccctgccaca  | 600  |
| acctgcaggc | agccctgggg  | ccccgctggg | ccctcgtctg | gctctggccc | ttcctggcct  | 660  |
| ccccattgcc | tggggatggg  | atcaccttcc | agaccacagc | agatgtggga | canacagcct  | 720  |
| cctgactcca | ggaagagcca  | gagctgtgca | gggaggaagg | ggtgagaggg | gggccccac   | 780  |
| acctagactc | agtaagggaag | tcgggttggg | ccttaacatc | tgcatgggac | aactccaccc  | 840  |
| cttccttggc | cttgcacctg  | cccgcctaca | ctcctacgtg | tccagggtct | gggcccgtgac | 900  |
| ttaggcagag | gagtgcagag  | gagggtctgg | caggggctgc | tcaggccgcc | tagctgcccc  | 960  |
| tttgccaggt | taataaagca  | ctgacttgt  | aaaaaaaaa  | aaaaaaaaa  | aaagggcggc  | 1020 |
| cgct       |             |            |            |            |             | 1024 |

<210> 265  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (488)..(488)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (536)..(536)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (539)..(539)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (548)..(548)  
 <223> n equals a,t,g, or c

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 265  |             |            |            |            |            |     |
| acagagtctc | gctctgttgt  | ccagcctggg | caacagagaa | aacaaaaagg | aaaacaaatg | 60  |
| atgaaggtct | gcagaaaactg | aaaccagac  | atgtgtctgc | cccctctatg | tgggcatggt | 120 |
| tttgccagt  | cttctaagt   | caggagaaca | tgtcacctga | ggctagtttt | gcattcaggt | 180 |
| ccctggcttc | gtttcttgtt  | ggtatgctc  | cccagatcgt | ccttcttga  | tccatgtgac | 240 |
| cagactgtat | ttgttgggac  | tgtcgagat  | cttggcttct | tacagttctt | cctgtccaaa | 300 |
| ctccatcctg | tccctcagga  | acggggggaa | aattctccga | atgtttttgg | ttttttggct | 360 |
| gcttgaatt  | tacttctgcc  | acctgctggt | catcactgtc | ctcactaagt | ggattctggc | 420 |
| tcccccgtag | ctcatggctc  | aaactaccac | tctcagtcg  | ctatatataa | gcttatattt | 480 |
| tgctgganta | ctgctaaata  | caaaagaaag | tccaatatgt | ttccattctg | tagggnaana | 540 |
| gggatgcngg | cttaaaattc  | tgagcaaggg | ttttttggca | gtgcagtggt | ggcactatgg | 600 |
| aaaacccttg | gtcccccgga  | a          |            |            |            | 621 |

<210> 266  
 <211> 884  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (307)..(307)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (356)..(356)

<223> n equals a,t,g, or c

<400> 266

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tcgacccacg | cgtccgccgg | atggttgcca | cccctcctgc | tgtaggatgg | aagcagccat | 60  |
| ggagtgggag | ggaggcgcaa | taagacaccc | ctccacagag | cttggcatca | tgggaagctg | 120 |
| gttctacctc | ttcctggctc | ctttgtttaa | aggcctggct | gggagccttc | cttttgggtg | 180 |
| tctttctctt | ctccaaccaa | cagaaaagac | tgctctbaa  | agtggagggg | cttcatgaaa | 240 |
| cacagctgcc | aggagcccag | gcacaggctg | ggggcctgga | aaaaggaggg | cacacaggag | 300 |
| gagggangga | gctggtaggg | gagatgctgg | gctttaccta | agtctcgaaa | caaggnggca | 360 |
| gaataggcag | aggcctctcc | gttccaggcc | catttttgac | aratggcggg | acggaaatgc | 420 |
| aatagaccag | cctgcaaraa | aracatgtgt | tttgatgaca | ggcagtgtgg | ccgggtggaa | 480 |
| caagcacagg | ccttggaatc | ccaatggact | gaatcagaac | cctaggcctg | ccatctgtca | 540 |
| gccgggtgac | ctgggtcaat | tttagcctct | aaaagcctca | gtctccttat | ctgcaaaatg | 600 |
| aggcttgtag | tacctgtttt | gaagggttgc | tgagaaaatt | aaagataagg | gtatccaaaa | 660 |
| tagtctacgg | ccataccacc | ctgaacgtgc | ctaattctcg | aagctaagca | gggtcaggcc | 720 |
| tggttagtag | ctggatgggg | agagtatgga | aaacatacct | gcccgcagtt | ggagttggac | 780 |
| tctgtcttaa | cagtagcgtg | gcacacagaa | ggcactcagt | aaatacttgt | tgaataaatg | 840 |
| aagtagcgat | ttggtgtgaa | aaaaaaaaaa | aaaaaaaaaa | aaac       |            | 884 |

<210> 267

<211> 1231

<212> DNA

<213> Homo sapiens

<400> 267

|            |            |            |             |              |             |      |
|------------|------------|------------|-------------|--------------|-------------|------|
| ggcacgagtg | aatgtcgagg | agttccagga | tctctggcct  | cagttgtcct   | tggttattga  | 60   |
| tgggggacaa | attgggggat | gccagagccc | cgagtgtcgc  | cttggctcaa   | ctgtggttga  | 120  |
| tttgtctgtg | cccggaaagt | ttggcatcat | tcgtccaggc  | tgtgccctgg   | aaagtactac  | 180  |
| agccatcctc | caacagaagt | acggactgct | cccctcacat  | gcgtcctacc   | tgtgaaactc  | 240  |
| tgggaagcag | gaaggcccaa | gacctggtgc | tggatactat  | gtgtctgtcc   | actgacgact  | 300  |
| gtcaaggcct | catttgcaga | ggccaccgga | gctagggcac  | tagcctgact   | tttaaggcag  | 360  |
| tgtgtctttc | tgagcactgt | agaccaagcc | cttggagctg  | ctggtttagc   | cttgcacctg  | 420  |
| gggaaaggat | gtattttatt | gtattttcat | atatcagcca  | aaagctgaat   | ggaaaagtta  | 480  |
| agaacattcc | taggtggcct | tattttaata | agtttcttct  | gtctgttttg   | tttttcaatt  | 540  |
| gaaaagtaat | taaataacag | attagaatct | agtgaagacc  | tcctctctgg   | tgggtgggtgg | 600  |
| cattttaagg | caaaccagcc | agaagtgtcg | gtgctgttta  | aaaagtctca   | ggtggctgcg  | 660  |
| tgtggtggct | catgcctgta | atcccaacat | tctgggaggg  | ccaggcgggg   | gaactgttg   | 720  |
| agccccagga | gttcagaatc | agcctgggca | acatagcaat  | actccgtctc   | ataaaaaatta | 780  |
| ataaataaaa | agtctcaggt | gaccaaaggc | tcctgaagct  | agaaccaggt   | ttggataaag  | 840  |
| attgaagagc | cacaggccac | tcttccctct | gagccattgg  | gcctagtggg   | gtcatgtatt  | 900  |
| gtaattgctc | gcagggagag | cagtcttttt | ggtgtaatat  | tgggatgtct   | gcttagttgg  | 960  |
| caggggttca | gtccaaatgg | aagaatattg | ggaaaataaac | ctccactatc   | ctttatagcc  | 1020 |
| agggaacttt | ttcctattta | ttcataaaat | aaattatagt  | taattatacc   | cataacacct  | 1080 |
| ttattttaa  | ccagtgcttc | ccgcagcctt | ttgtctattt  | atatgtgtacca | agtggttaa   | 1140 |
| acataattat | tattgggcat | ttgaactttg | tttttcttta  | aagaaatgct   | gctattaaac  | 1200 |
| atatttgtaa | atggaaaaaa | aaaaaaaaaa | a           |              |             | 1231 |

<210> 268  
 <211> 1223  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1204)..(1204)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1206)..(1206)  
 <223> n equals a,t,g, or c

<400> 268

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| gcttagctcg  | aaattaaccc | tcactaaagg | gaacaaaagc | tggagctcca  | ccgcggtggc  | 60   |
| ggccgctcta  | gaactagtgg | atcccccg   | ctgywkaatt | cggcacgag   | ctgctgtctg  | 120  |
| tgcttcggga  | tccctgcctc | cagaagtcct | ccaaggcttg | gtacttgctg  | cgtgtccagg  | 180  |
| tccctgcagct | ggtggcagct | taccttagcc | tcccgtaaaa | caacctctca  | cactccctgt  | 240  |
| gggagcagct  | ctgtgcccaa | ggctggcaga | cacctgagat | agctctcata  | gactcccata  | 300  |
| agctcctccg  | aagcatcatc | ctcctgctga | tgggcagtga | cattctctca  | actcagaaaag | 360  |
| cagctgtgga  | gacatcggtt | ttggactatg | gtgaaaatct | ggtacaaaaa  | tggcagggttc | 420  |
| tttcagaggt  | gctgagctgc | tcagagaagc | tggctctgcc | cctgggccgc  | ctgggtagtg  | 480  |
| tgagtgaagc  | caaggccttt | tgcttggagg | ccctaaact  | tacaacaaag  | ctgcagatac  | 540  |
| cacgccagt   | tgccctgttc | ctggtgctga | agggcgagct | ggagctggcc  | cgcaatgaca  | 600  |
| ttgatctctg  | tcagtccgac | ctgcagcagg | ttctgttctt | gcttgagtct  | tgcacagagt  | 660  |
| ttggtggggt  | gactcagcac | ctggactctg | tgaagaagg  | ccacctgcag  | aagggaagc   | 720  |
| agcaggccca  | ggtccctgt  | cctccacagc | tcccagagga | ggagctcttc  | ctaagaggcc  | 780  |
| ctgctctaga  | gctggtgcc  | ctgtggccaa | ggagcctggc | cccatagcac  | cttctacaaa  | 840  |
| ctcctcccca  | gtcttgaaaa | ccaagcccca | gcccataccc | aacttcctgt  | cccattcacc  | 900  |
| cacctgtgac  | tgctcgtct  | gcgccagccc | tgctctcaca | gcagtctgtc  | tgcgctgggt  | 960  |
| attggtcacg  | gcagggtga  | ggctggccat | gggccaccaa | gcccagggtc  | tggatctgct  | 1020 |
| gcaggtcgtg  | ctgaagggt  | gtcctgaagc | cgctgagcgc | ctcaccacaag | ctctccaagc  | 1080 |
| ttccctgaat  | cataaaacac | ccccctcctt | ggttccaagc | ctcttgatg   | agatttggct  | 1140 |
| aagcatacac  | actgttgac  | tggagggcct | gaaccagcca | tcaaacgaga  | gcctgcagaa  | 1200 |
| ggtncncagt  | aaggctgaag | ttt        |            |             |             | 1223 |

<210> 269  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<400> 269

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gtgcacccac | gcgtccggcg | gcggcaggcg | cgggcgaggc | ccacggggag  | aggagacgca | 60  |
| gccccgcggg | tggcacgctc | ggccggggcc | cgggccgcgc | tcaacggggc  | cgatgctctt | 120 |
| ctcgctccgg | gagctgggtc | agtggctagg | cttcgccacc | ttcgagatct  | tcgtgcacct | 180 |
| gctggccctg | ttggtgttct | ctgtgctgct | ggcactgcgt | gtggatggcc  | tgggtccggg | 240 |
| cctctcctgg | tggaaagtgt | tcgtgccttt | cttcgcgcgt | gacgggctca  | gcacctactt | 300 |
| caccaccatc | gtgtccgtgc | gcctcttcca | ggatggagag | aagcggctgg  | cggtgctccg | 360 |
| cyttttctgg | gtacttacgg | tcctgagctc | caagttcgct | ttcgagatgc  | tgttgtgcca | 420 |
| gaagctggcg | gagcagactc | gggagctctg | gttcggcctc | attacgtccc  | cgctcttcat | 480 |
| tctcctgcag | ctgctcatga | tccgcgcctg | tcgggtcaac | tagcctcacc  | gaggtgccgg | 540 |
| agagggagcg | ctggacaact | agaatgttga | cctcgagccg | aggccctact  | tgcagcgcac | 600 |
| cggaggagag | gctctctagt | ctgaaggcac | cgccggcttg | cgccgagctg  | agtgcgggt  | 660 |
| ttccctattc | caatcctgtt | tgaatgggtt | tcttcagcag | ggcttaaaaag | agcagccttc | 720 |
| atcctgaaaa | tgtatttcct | tttgtttaat | gctttgagta | gataatcctg  | aattgaggtc | 780 |

|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| atgaggaggc  | ccccaggcc  | agacagtcct  | gaacccctct | gacacttgga | aactgaatat | 840  |
| aagtaaaatg  | tccaggtgga | ctctgagtat  | ttcctgtgga | tcctgggaaa | gtactgttgc | 900  |
| acaaaaggctg | caaagctgga | ctcaggaatg  | tcctccaacc | agcagcgctg | acctaagagc | 960  |
| tcctgtgccc  | gtctatccag | accagacttc  | ggtagatgcc | tttgttagat | ctatcacatg | 1020 |
| taaacgagct  | tgtatctcct | tccctgtgcc  | acgagagaga | ttggctttt  | attccagtct | 1080 |
| aggcagagac  | agaagaatgt | tgaataagag  | cacgattaga | gtcctgtctg | gttatctgtt | 1140 |
| gcccagaana  | agaactctgc | tgtccaggca  | ctgcttggtc | tactatccca | gcaaagactg | 1200 |
| cagttttgtg  | gacttttgac | caccttgggc  | tggcactctt | agcacacctg | agacagattt | 1260 |
| aagcctccct  | aagagactga | agagagggaac | aggtgtcaga | tactcatagg | cactgagatc | 1320 |
| tacaaatggg  | aagcttgtga | gtggcccatc  | tttgttggcc | tacgaacttt | ggtttgatgc | 1380 |
| cagtcagggtg | ccacatgaga | acctttgtctg | agatgcaaat | aaagtaagag | aatgttttcc | 1440 |
| tgaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaagggc  | ggcc       | 1494 |

<210> 270  
 <211> 1216  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| <400> 270   |            |            |             |             |             |      |
| ataactcag   | cccggtgccc | agagcccagg | aggaggcagt  | ggccagggaag | gcacaggcct  | 60   |
| gagaagtctg  | cggctgagct | gggagcaa   | ccccacccc   | ctacctgggg  | gacagggtgc  | 120  |
| agcggccatg  | gtacagcaa  | gacccccctg | gatgtgggtg  | ctctgtgctc  | tgatcacagc  | 180  |
| cttgcttctg  | ggggtcacag | agcatgttct | cgccaacaat  | gatgtttcct  | gtgaccaccc  | 240  |
| ctctaacacc  | gtgccctctg | ggagcaacca | ggacctggga  | gctggggccg  | gggaagacgc  | 300  |
| ccggtcggat  | gacagcagca | gccgcatcat | caatggatcc  | gatgcgata   | tgacaccca   | 360  |
| gccgtggcag  | gccgcgctgt | tgctaaggcc | caaccagctc  | tactgcgggg  | cgggtgttgg  | 420  |
| gcattccacag | tggctgtctc | cggccgcccc | ctgcagggaag | aaagttttca  | gagtcctgtc  | 480  |
| cggccactac  | tccctgtcac | cagtttatga | atctgggcag  | cagatgttcc  | aggggggtcaa | 540  |
| atccatcccc  | caccctggct | actcccaccc | tggccactct  | aacgacctca  | tgctcatcaa  | 600  |
| actgaacaga  | agaattcgct | ccactaaaga | tgctagaccc  | atcaacgtct  | cctctcattg  | 660  |
| tccctctgct  | gggacaaagt | gcttggtgtc | tggctggggg  | acaaccaaga  | gcccccaagt  | 720  |
| gcacttccct  | aaggctcctc | agtgtttgaa | tatcaggtg   | ctaagtcaga  | aaagggtgca  | 780  |
| ggatgcttac  | ccgagacaga | tagatgacac | catgttctgc  | gccggtgaca  | aagcaggtag  | 840  |
| agactcctgc  | cagggtgatt | ctggggggcc | tgtggtctgc  | aatggctccc  | tgacgggact  | 900  |
| cgtgtccttg  | ggagattacc | cttgtgcccc | gccaacaga   | cggggtgtct  | acacgaacct  | 960  |
| ctgcaagtgc  | accaagtgga | tccaggaaac | catccaggcc  | aactcctgag  | tcattcccagg | 1020 |
| actcagcaca  | ccggcatccc | cacctgctgc | agggacagcc  | ctgacactcc  | tttcagaccc  | 1080 |
| tcattccttc  | ccagagactg | ttgagaatgt | tcattctctc  | agccccctgac | cccatgtctc  | 1140 |
| ctggactcag  | ggtctgtctc | ccccacattg | gctgaccgt   | gtctctctag  | ttgaaccttg  | 1200 |
| ggaacaattt  | ccaaaa     |            |             |             |             | 1216 |

<210> 271  
 <211> 859  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n equals a,t,g, or c

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 271  |            |            |            |             |            |     |
| ccgggtcgac | ccacgcgtcc | ggcagangcg | ggactgtcgt | ctggggggagc | cgcccaggag | 60  |
| gtctctcagg | ccgaccccag | accctggctg | gccaggatga | agtatctccg  | gcaccggcgg | 120 |
| cccaatgcc  | ccctcattct | ggccatcggc | gctttcacc  | tcctcctctt  | cagtctgcta | 180 |
| gtgtcaccac | ggctcagcaa | ggccaggag  | cagccaccgg | cgatccccga  | ggccctggcc | 240 |
| tggccactc  | cacccaccgc | cccagccccg | gccccgtgcc | atgccaacac  | ctctatggtc | 300 |

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| accacccg   | acttcgccac  | gcagccgcag  | cacgttcaga | acttcctcct | gtacagacac  | 360 |
| tgccgccact | ttccccctgct | gcaggacgtg  | ccccctcta  | agtgcgcgca | gccggtcttc  | 420 |
| ctgctgctgg | tgatcaagtc  | ctccccctagc | aactatgtgc | gccgcgagct | gctgcggcgc  | 480 |
| acgtggggcc | gcgagcgcaa  | ggtacggggt  | ttgcagctgc | gcctcctctt | cctgggtgggc | 540 |
| acagcctcca | acccgcacga  | ggcccgcaag  | gtcaaccggc | tgctggagct | ggaggcacag  | 600 |
| actcacggag | acatcctgca  | gtgggacttc  | cacgactcct | tcttcaacct | cacgctcaag  | 660 |
| caggtgcgct | ggactggggt  | cacctgatcg  | gggccacctg | tccttcttgt | ccaaattacc  | 720 |
| actccactcc | agcctgggca  | acaaaagcga  | aaactccatc | tccaaaaaaa | taataataat  | 780 |
| aataataaaa | taaaaatcac  | acaaaaggcca | aaaaaaaaaa | aaaaaaaaaa | aaaaaamaaa  | 840 |
| aaaaaaaaaa | aaaaaaaaaa  |             |            |            |             | 859 |

<210> 272  
 <211> 1238  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 272  |             |             |             |             |            |      |
| ccctcacatc | agggaaaatg  | accttcactg  | ctgttaacag  | taatgkgctc  | ctttcatttt | 60   |
| ctggatcaag | ccttctcagc  | gggtggctctg | gatgtgggta  | aactaaggta  | aaggggatga | 120  |
| tattccacaa | actaattatg  | cacacagaaa  | atctgtggag  | cctatcagac  | cccaagtgtc | 180  |
| ttgaaatgtt | tgtagaaacc  | cactaaaatg  | ccccctctct  | gggtgtgggc  | ccttattgca | 240  |
| gctgtctcac | agcctgagct  | gtggtacaga  | gaaatggggg  | ttctcctttt  | attttatttt | 300  |
| tttttcccca | atggcagctt  | ttctcccgtt  | gttttacctt  | cctatttccc  | aaacagttcc | 360  |
| tcttattttg | tcttttgcac  | cagtttcttg  | aggcccttgt  | cattttcaaaa | aggatagtct | 420  |
| cttttcttac | tctggcaaac  | ctgtgagtga  | ttccacaaaag | atacagtatt  | acttagctaw | 480  |
| ctgaattatg | atagaaaagg  | tcctagttag  | gttcctatat  | aaagcatttg  | gaagatgacc | 540  |
| ttgttgccct | tgaacttga   | aaatagggat  | tctgggggta  | ggatacaaaag | acattgtctt | 600  |
| gcatatccat | aagcaggtct  | tagagcatta  | ttccaaactc  | tagctgtttc  | agtagttcta | 660  |
| tgaggattgc | aagtcatagg  | tgtgtgtggc  | atatcagtc   | atctccctcat | ctccattct  | 720  |
| cagtttcttc | cccacaaaat  | ttggaatcaa  | agcttttatg  | acgttttgcca | attgcagaac | 780  |
| ttcttcagct | aaggttaatt  | tgacgctatg  | ataaaactga  | gagatgtcaa  | aaagcctctt | 840  |
| agaaatttta | atcttgaaaag | acttttcagg  | gtatctcatt  | ttttaggtgg  | gggtggcagg | 900  |
| tgtatttctt | ttttaacaaa  | taaaaggcat  | ttaagtaaaa  | ctaaaatgaa  | aaaagtaggc | 960  |
| cttctgacat | tgtgtacttg  | gtggttctgt  | ccctctgcct  | gtaacaaaatc | tcatttttgt | 1020 |
| taccaagaac | tgtatgaaag  | aagtaaatcc  | accccgatcc  | tgtatgatta  | attccatctg | 1080 |
| tgtttgtcat | ttctgactgg  | aaaacttctt  | actccatacc  | ttgtcgata   | tggaggacaa | 1140 |
| ataattggat | tgtctgataa  | gtctgccaat  | aaactatcca  | gaaatagcaa  | gtgtaaaaaa | 1200 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | gggcggcc    |             |            | 1238 |

<210> 273  
 <211> 1189  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 273  |             |            |            |            |            |     |
| gcgtccgctg | ggctggaaca  | gcacagaacc | cacagggctg | ccgtccacac | tctcccggtc | 60  |
| agagtccctg | gaccacatgg  | ggacgctgcc | atggcttctt | gccttcttca | ttctgggtct | 120 |
| ccaggcttgg | gatactccca  | ccatcgctct | ccgcaaggag | tggggggcaa | gaccgctcgc | 180 |
| ctgcagggcc | ctgctgaccc  | tgctgtggc  | ctacatcatc | acgaccagc  | tcccagggat | 240 |
| gcagtgccag | cagcagagcg  | tttgcagcca | gatgctgcgg | gggttgagct | cccattccgt | 300 |
| ctacaccata | ggctgggtgcg | acgtggcgta | caacttcctg | gttggggatg | atggcagggg | 360 |
| gtatgaaggt | gttggctgga  | acatccaagg | cttgacacac | cagggctaca | acaacatttc | 420 |
| cctgggcctc | gccttctttg  | gcaataagat | aagcagcagt | cccagccctg | ctgccttata | 480 |
| agctgcagag | ggtctgatct  | cctatgccat | ccagaagggt | cacctgtcgc | ccaggtatat | 540 |
| tcagccactt | cttctgaaag  | aagagacctg | cctggacctc | caacatccag | tgatgccag  | 600 |
| gaaggtttgc | cccaacatca  | tcaaacgata | tgcttggga  | gccagagaga | cacactgccc | 660 |
| taaaatgaac | ctcccagcca  | aatatgtcat | catcatccac | accgctggca | caagctgcac | 720 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| tgtatccaca | gactgccaga | ctgtcgtccg | aaacatacag | tcctttcaca | tggaacacacg | 780  |
| gaacttttgt | gacattggat | atcaataagg | ccaggcgtgg | cggcgattac | gtctgtaatc  | 840  |
| ccaggacttt | gggaggccaa | ggcgggcaga | tcacttcagg | ccaggaattc | aagagcagcc  | 900  |
| tgccaatat  | ggcgaaactc | tgtctctact | gaaaacaaac | aaacaaacaa | acaaacaaac  | 960  |
| aaagaaacaa | caaaaattag | ccgggtgtgg | tggcacacgc | ctgtagtccc | agctactcag  | 1020 |
| gaggctgagg | cataagaatt | gcttgaaccc | tggaggcggg | ggttgcagtg | agctgagatt  | 1080 |
| gggccaccgc | actccagtct | gggagacaga | gtgagactgt | ctcaaaacaa | caacaaaaaa  | 1140 |
| atccctaaca | taatctcaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa |             | 1189 |

<210> 274  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 274   |             |
| tcgacccacg  | cgctccgaact |
| tggtcttttt  | ctgcttttta  |
| agttccagga  | caccaaggtc  |
| gccagacata  | tggaataaaa  |
| ttagcctaata | gcctcctgga  |
| gcttttgcag  | ccttcttttc  |
| cataaagaca  | tacctactct  |
| gattcacttg  | tcaataaagt  |
| aaaaaaaaaa  | aaaaaa      |

<210> 275  
 <211> 3153  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2584)..(2584)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2590)..(2590)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (3153)..(3153)  
 <223> n equals a,t,g, or c

|            |            |
|------------|------------|
| <400> 275  |            |
| nggccgtggg | tgtacgcggc |
| gctgcccctg | ctgtcgtctc |
| tagcatggtc | caactgcagg |
| agatggtgaa | ggcctgtgac |
| tgtcaccaac | aaagatttca |
| gatgttttga | tgagagcttg |



|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| cacccagcca  | atgaagtctg | tactctgggtg | gcttccagtg | gaaaggcat   | tttgaggga   | 420  |
| gcctgcaggt  | cctggctctg | gcacccgaga  | gagactggag | cacccagtgt  | tacacgtgag  | 480  |
| ctggaatgac  | gcccgtgcct | actgtgcttg  | gcggggaaaa | cgactgcca   | cggagggaaga | 540  |
| gtgggagttt  | gccgcccag  | ggggcttgaa  | gggtcaagtt | tacccatggg  | ggaactgggt  | 600  |
| ccagccaaac  | cgcaccaacc | tgtggcaggg  | aaagttcccc | aaggagaca   | aagctgagga  | 660  |
| tggcttccat  | ggagtctccc | cagtgaatgc  | tttccccgcc | cagaacaact  | acgggctcta  | 720  |
| tgacatcctg  | gggaacgtgt | gggagtggac  | agcatcaccc | taccaggctg  | ctgagcagga  | 780  |
| catgcgcgtc  | ctccgggggg | catcctggat  | cgacacagc  | gatggctctg  | ccaatcaccc  | 840  |
| ggcccgggtc  | accaccagga | tgggcaacac  | tccagattca | gcctcagaca  | acctcggttt  | 900  |
| ccgctgtgct  | gcagacgcag | gccggccgcc  | aggggagctg | taagcagccg  | ggtggtgaca  | 960  |
| aggagaaaag  | ccttctaggg | tactgtcat   | tccctggcca | tgttgcaaac  | agcgcaattc  | 1020 |
| caagctcgag  | agcttcagcc | tcaggaaaga  | acttccccct | ccctgtctcc  | catccctctg  | 1080 |
| tggcaggcgc  | ctctcaccag | ggcaggagag  | gactcagcct | cctgtgtttt  | ggagaagggg  | 1140 |
| cccaatgtgt  | gttgacgatg | gctgggggcc  | aggtgtttct | gttagaggcc  | aagtattatt  | 1200 |
| gacacaggat  | tgcaaacaca | caaacaattg  | gaagagagca | ctctgaaagg  | ccatttttta  | 1260 |
| agcattttta  | aatctattct | ctcccccttt  | ctccctggat | gattcaggaa  | gctgacattg  | 1320 |
| tttctcaag   | gcagaatttt | cctggttctg  | ttttctcagc | cagttgctgt  | ggaaggagaa  | 1380 |
| tgttttcttt  | gtggcctcat | ctgtggtttc  | gtgtccctct | gaaggaaaact | agtttccact  | 1440 |
| gtgtaacagg  | cagacatgta | actattttaa  | gcacagtcca | gtcctaaaag  | ggtctgggag  | 1500 |
| aaccagatga  | tgtactaggt | gaagcattgc  | attgtgggaa | tcacaaagca  | aatagtactc  | 1560 |
| cagaaagaca  | aatatcagaa | gcttcctatt  | cttttttttt | tttttttttt  | tttgagacag  | 1620 |
| ggtctttctc  | tgttgcccag | gctagagtgc  | actggtgata | acggctcact  | ctagccttga  | 1680 |
| attcctgggc  | ccaagcaatt | ctccacctc   | agcctcctga | gtagctggga  | ctacaagtgt  | 1740 |
| gcaccaccat  | gcctggctaa | ttttttgaat  | ttttgtagt  | atgggatctc  | gctctgttgc  | 1800 |
| ccagggtggt  | ctcgaactcc | tggcctcaag  | cgatcctccc | acctcgacct  | cccaaagt    | 1860 |
| tgggattaca  | ggtgtgagcc | acctcgccctg | ggcccccttc | tccatatgcc  | tccaaaaaca  | 1920 |
| tgccctgga   | gagtgcctg  | ctcccacact  | gtcactggat | gtcatggggc  | caataaaatc  | 1980 |
| tcctgcaatt  | gtgtatctca | gacattttgt  | tctttgatcc | tcaccctgtg  | accctaaagg  | 2040 |
| gaagaaagcc  | tgagtgtcaa | gtaactctgg  | gcctccccta | aagagaaatg  | gagatggtgg  | 2100 |
| ctcatctagg  | aagtagagga | gcaggggggt  | cctggttctc | aggccacgtg  | tgatctctgc  | 2160 |
| ccaccacagg  | cctgccccag | cctgcaggta  | ttgctgtgtg | gtgggaacac  | ccacttccct  | 2220 |
| tgtgcacagc  | ctttgagagg | ggatcgtggc  | ctcagttcca | ggggttccct  | gcaggggcca  | 2280 |
| agtgtcctt   | ctgcagagcc | ctgcacgcac  | ctcacccttc | tgacttgtat  | ttccatggct  | 2340 |
| tccccctccc  | acctgcccc  | tagccctccc  | tgactggcca | gccccctcag  | agtcctcttc  | 2400 |
| ggccaggggag | aggagcacgg | ccttgggtgt  | gttctcgaaa | agggctgccc  | ggttctgctg  | 2460 |
| ctgcccccttc | ttcaccagt  | ggccatagat  | tcggaaagcg | taggcgtcga  | tgagccggcg  | 2520 |
| cagaggccgg  | agggcatagg | ggtctcggat  | gacgatctcc | cgggtcacag  | gcttcacccg  | 2580 |
| gcgntactgn  | tagtagatcc | gactgaagc   | cagcacggtc | agagcgatca  | ccttgaactt  | 2640 |
| cccccggggg  | ctgaagtgcc | gcacttcctc  | taccaagtac | tgttgagaga  | aggggtgtgc  | 2700 |
| caaggcctct  | tccgtgtgt  | agcggttctg  | gggttgacc  | accaggaatc  | gggagaccag  | 2760 |
| gtccttcacg  | gtgtccgagt | aatcatccca  | ctcggcgag  | ccaaactggg  | agttgccgct  | 2820 |
| catgatcctc  | ctcagcatca | gcactgtctt  | ccggtgccag | aagggcgggg  | agccggccag  | 2880 |
| cagcgtgtac  | atgatgacgc | cagtgtccca  | catgtccacc | tctttcccgt  | agcccgggtg  | 2940 |
| gtcctcattc  | atggagcact | cgataatctc  | aggggccagg | taactggggg  | tcccgcagac  | 3000 |
| ctctcgcagc  | ctctctccc  | gctccagctg  | gcaggaaaag | ccaaagtctg  | tgagcttgat  | 3060 |
| gttcatgttg  | tcacccaaga | gaatgttctc  | gggttcagg  | tccggtgca   | cgatgttgag  | 3120 |
| tttgtgcaag  | gtgcagatca | cctccagcag  | agn        |             |             | 3153 |

<210> 276

<211> 686

<212> DNA

<213> Homo sapiens

<400> 276

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| tcgacccacg | cgtccgaact | gccaaaagct | ggtgattctg | ggacaggcct  | tcacttttga | 60  |
| gccacgggat | ggggtggggg | agccccatgg | gcctgggaag | gaggggtgctg | tggagggggc | 120 |
| tgcagggctg | accagcaggc | agcctcatct | ggtcgggggc | gggggcggca  | ggagcagaag | 180 |

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| cggggtctcc | gtccttggga | ctgtcctggt | tggccacggg  | ccctgaggat | gcacgggtgcc | 240 |
| tggggctcct | gtgccgggtg | gcggggggca | tgctggcctc  | tggcgatca  | ggcgaggcca  | 300 |
| gcgagggtgt | gcttgcaaat | tcaagcaata | agaggggggt  | tcctgggggc | ttccagccca  | 360 |
| ggctagaagc | ccccatggct | tctggcagct | ggacatcagc  | cccaggtatt | gggggtgattt | 420 |
| tggctatgac | agtgtgcctg | tcccactggt | acacgcataga | atgggggtta | tgggggtgggg | 480 |
| gtgggactca | aggcttgacc | gactcctagt | ggacctgatg  | tgaatttcct | gtcaaacaaa  | 540 |
| caccactttt | caatggtttg | ctaggagtat | ttctgtattg  | aaagtttcta | attatgcttt  | 600 |
| ttaaaaaaat | actaaaaata | aaggttcaag | ctgccaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | 660 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaa     |             |            |             | 686 |

<210> 277

<211> 2352

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 277

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| ncaggcagtg | agactggctc  | gggcggggccg | ggacgcgtcg  | ttgcagcagc  | ggctcccagc | 60   |
| tcccagccag | gattccgcgc  | gccccttcac  | gcgccctgct  | cctgaacttc  | agctcctgca | 120  |
| cagtcctccc | caccgcaagg  | ctcaaggcgc  | cgccggcgctg | gaccgcgcac  | ggcctctagg | 180  |
| tctcctcgcc | aggacagcaa  | cctctcccct  | ggccctcatg  | ggcaccgtca  | gctccaggcg | 240  |
| gtcctgggtg | ccgctgccac  | tgctgctgct  | gctgctgtg   | ctcctgggtc  | ccgcggggcg | 300  |
| ccgtgcgag  | gaggacgagg  | acggcgacta  | cgaggagctg  | gtgctagcct  | tgcgttccga | 360  |
| ggaggacggc | ctggccgaag  | cacccgagca  | cggaaccaca  | gccaccttc   | accgctgcgc | 420  |
| caaggatccg | tggaggttgc  | ctggcaccta  | cgtggtggtg  | ctgaaggagg  | agaccacct  | 480  |
| ctgcagtc   | gagcgcactg  | cccgcgcct   | gcaggcccag  | gctgcccggc  | ggggatacct | 540  |
| caccaagatc | ctgcatgtct  | tccatggcct  | tcttcctggc  | ttcctgggtga | agatgagtgg | 600  |
| cgacctgctg | gagctggcct  | tgaagttgcc  | ccatgtcgac  | tacatcgagg  | aggactcctc | 660  |
| tgtctttgcc | cagagcatcc  | cgtggaacct  | gagcgggatt  | accctccac   | ggtaccgggc | 720  |
| ggatgaatac | cagcccccg   | acggaggcag  | cctgggtggag | gtgtatctcc  | tagacaccag | 780  |
| catacagagt | gaccaccggg  | aaatcgaggg  | cagggtcatg  | gtcaccgact  | tcgagaatgt | 840  |
| gcccaggagg | gacgggaccc  | gcttccacag  | acaggccagc  | aagtgtgaca  | gtcatggcac | 900  |
| ccacctggca | gggggtggtca | gcgccggga   | tgccggcgctg | gccaaggggtg | ccagcatgcg | 960  |
| cagcctgcgc | gtgctcaact  | gccaagggaa  | gggcacgggt  | agcggcaccc  | tcataggcct | 1020 |
| ggagtttatt | cggaaaagcc  | agctggtcca  | gcctgtgggg  | ccactgggtg  | tgtgtctgcc | 1080 |
| cctggcgggt | gggtacagcc  | gcgtcdcaa   | cgccgcctgc  | cagcgcctgg  | cgagggctgg | 1140 |
| ggtcgtgctg | gtcacccgtg  | ccggcaactt  | ccgggacgat  | gcctgcctct  | actccccagc | 1200 |
| ctcagctccc | gaggtcatca  | cagttggggc  | caccaatgcc  | caggaccagc  | cggtgaccct | 1260 |
| ggggactttg | gggaccaact  | ttggccgctg  | tgtggacctc  | tttgccccag  | gggagggaat | 1320 |
| cattggtgcc | tccagcgact  | gcagcacctg  | ctttgtgtca  | cagagtggga  | catcacaggc | 1380 |
| tgtgcccac  | gtggctggca  | ttgcagccat  | gatgctgtct  | gccgagccgg  | agctcacctt | 1440 |
| ggccgagttg | aggcagagac  | tgatccactt  | ctctgccaaa  | gatgtcatca  | atgaggcctg | 1500 |
| gttccctgag | gaccagcggg  | tactgacccc  | caacctgggtg | gccgccctgc  | ccccagcac  | 1560 |
| ccatggggca | ggttggcagc  | tgttttgca   | gactgtgtgg  | tcagcacact  | cggggcctac | 1620 |
| acggatggcc | acagccatcg  | cccgtgcgc   | cccagatgag  | gagctgctga  | gctgtccag  | 1680 |
| tttctccagg | agtgggaagc  | ggcggggcga  | gcgcattggg  | gcccaggggg  | gaagctggt  | 1740 |
| ctgccggggc | cacaacgctt  | ttgggggtga  | gggtgtctac  | gccattgcca  | ggtgctgcct | 1800 |
| gctaccccag | gccaaactgca | gcgtccacac  | agctccacca  | gctgaggcca  | gcatggggac | 1860 |
| ccgtgtccac | tgccaccaac  | agggccacgt  | cctcacaggc  | tgcagctccc  | actgggaggt | 1920 |
| ggaggacctt | ggcaaccaca  | agccgcctgt  | gctgaggcca  | cgaggtcagc  | ccaaccagtg | 1980 |
| cgtggggcag | agggaggcca  | gcatccacgc  | ttcctgtctg  | catgccccag  | gtctggaatg | 2040 |
| caaagtcaag | gagcatggaa  | tcccggcccc  | tcaggagcag  | gtgaccgtgg  | cctgcgagga | 2100 |
| gggctggacc | ctgactggct  | gcagtgccct  | ccctgggacc  | tcccagtcc   | tgggggccta | 2160 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cgccgtagac | aacacgtgtg | tagtcaggag | ccgggacgtc | agcactacag | gcagcaccag | 2220 |
| cgaagaggcc | gtgacagccg | ttgccatctg | ctgccggagc | cggcacctgg | cgcaggcctc | 2280 |
| ccaggagctc | cagtgcagc  | cccatcccag | gatgggtgtc | tggggagggg | caagggctgg | 2340 |
| ggctgagctt | ta         |            |            |            |            | 2352 |

<210> 278  
 <211> 1105  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (797)..(797)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| <400> 278  |            |             |            |            |             |      |
| gggggaaaaa | aggacacgtt | gaattctgtt  | gctttaaatg | tattttttt  | tattgtgcta  | 60   |
| aaatgcacag | aacataaaat | ttgccattag  | taacactgag | tacattcaca | gtgtcgtgca  | 120  |
| accatcagca | ctgtctagcg | ccagaacttt  | ttcatcacc  | caaagggaaa | ccccgtatcc  | 180  |
| atgaaggact | cactcccat  | tcgccctctc  | cagcccttgg | cagccaccag | aatgctttct  | 240  |
| gtctccataa | attcattttt | aataagtgc   | attctgtgtg | actttaaaat | aaataaacat  | 300  |
| gagcacgatg | agttgcttat | tgaagagata  | tccatgcggg | gaggccggcg | tgtggagtgc  | 360  |
| gtargcctcc | ggacgggcag | gagttgaagg  | ggcgtggatg | tgccgcctc  | tcctcccctt  | 420  |
| gctctttcct | tggggtcact | gcctgagtat  | ccctctgc   | aaatggcccc | aaataatgtc  | 480  |
| tcagcccca  | cgtctgcac  | gcctcctagc  | ttcaggacce | tcacccaaaa | aacattccaa  | 540  |
| gcttcagact | cactcctggg | aaaattccaa  | tggcctcact | ctcccttttg | agccagccag  | 600  |
| atcccatggc | ctgtggcggg | ctgcctttga  | gtcctgagca | cctgtgagyt | aggggaagcag | 660  |
| gacaggcaca | cccagggaag | gggaagagtc  | gtcgtcagtc | acagtaattg | atatccttgg  | 720  |
| aatcgtctaa | gagatactta | gcgtgtgcct  | aaaacattca | tttctttttt | tgtttgtttt  | 780  |
| ttgwgcagaa | gtctcgnct  | gtcgcacagg  | ctggagtgc  | gtggcgtgat | ctcagctcac  | 840  |
| cgcaacctcc | tcctcccggg | ttcaagcgat  | tcctgcct   | cagcctcctg | agtggctggg  | 900  |
| actgcaggca | cacactacca | cgcctggcta  | gtttttttgt | twtttagkkg | agacgggggt  | 960  |
| tcactatgtt | ggccaggctg | gtctcaaaact | cctgacctcg | tgatctgcct | acctcggcct  | 1020 |
| cccaaagtgg | tgggattaca | ggcatgagcc  | actgcaccca | gccaactagt | cttaaaaaaa  | 1080 |
| aaaaaaaaa  | aaaaagggcg | gccgc       |            |            |             | 1105 |

<210> 279  
 <211> 2496  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2340)..(2340)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2373)..(2373)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 279  |            |            |             |            |            |     |
| ggccttacct | actagcggaa | tcgactgaag | agacgcctgc  | cagtgcggga | ggtaggaagc | 60  |
| tcgatcccca | aagaaaagag | cgagtgggca | ggcagctgcg  | agacagaacc | ggagtgtgca | 120 |
| gggtccctag | aggccggttc | ctggtctgtg | ctgctctcct  | ggaagccatg | gcagggcag  | 180 |
| agctcagggc | gatccccagg | tgagggcagc | ggctctgcct  | gggattccac | cgcagtacaa | 240 |
| ccgggtagat | gcgggggtga | gaagaaagga | tgttgccctgc | actgctcgcc | aatagcacc  | 300 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| tgagaggcta  | catttgcaga  | agcagcagca  | gcagaagaca | cagcgccggt  | ccaggaggcg  | 360  |
| gctcgagctg  | ttcgtaaagt  | cgccccgacag | ctttttctcc | gtagtatgcg  | agttgacaaa  | 420  |
| acagccagag  | aacagggtct  | cccattacaa  | tcttttcgag | atcttttccc  | ttgctaaccg  | 480  |
| gatctgattt  | gtgcgaaaac  | atgccttgca  | cttgtagctg | gaggaactgg  | agacagtgga  | 540  |
| ttcgaccttt  | agtagcggtc  | atctacctgg  | tgtcaatagt | ggttgcggtt  | cccctatgcg  | 600  |
| tgtgggaatt  | acagaaactg  | gaggttggaa  | tacacaccaa | ggcttggttt  | attgctggaa  | 660  |
| tctttttgct  | gttgactatt  | cctatatcac  | tgtgggtgat | attgcaacac  | ttagtgcatt  | 720  |
| atacacaacc  | tgaactacaa  | aaaccaataa  | taaggattct | ttggatggta  | cctattttaca | 780  |
| gtttagatag  | ttggatagct  | ttgaaatata  | ccggaattgc | aatatatgtg  | gataacctgca | 840  |
| gagaatgcta  | tgaagcttat  | gtaattttaca | actttatggg | attccttacc  | aattatctaa  | 900  |
| ctaaccggta  | tccaaatctg  | gtattaatcc  | ttgaagccaa | agatcaacag  | aaacatttcc  | 960  |
| ctccttttatg | ttgctgtcca  | ccatgggcta  | tgggagaagt | atgctgtttt  | aggtgcaaac  | 1020 |
| taggtgtatt  | gttgtagaca  | gttgtagaca  | ctttcaccac | catcggttgc  | ttaatctgtg  | 1080 |
| agctgcttgg  | tatatatgac  | gaagggaact  | ttagcttttc | aaatgcttgg  | acttatttgg  | 1140 |
| ttataataaaa | caacatgtca  | cagttgtttg  | ccatgtattg | tctcctgctc  | ttttataaag  | 1200 |
| tactaaaaga  | agaactgagc  | ccaatccaac  | ctggttgcaa | atctctttgt  | gtaaagctgg  | 1260 |
| tggtttttgt  | ttcttttttg  | caagcagtag  | ttattgcttt | gttggtaaaa  | gttggcggtta | 1320 |
| tttctgaaaa  | gcatacgtgg  | gaatggcaaa  | ctgtagaagc | tgtggccacc  | ggactccagg  | 1380 |
| attttattat  | ctgtattgag  | atgttctctg  | ctgccatgc  | tcatacattac | acatttctcat | 1440 |
| ataaaccata  | tgtccaagaa  | gcagaagagg  | gctcatgctt | tgattccttt  | cttgccatgt  | 1500 |
| gggatgtctc  | agatattaga  | gatgatattt  | ctgaacaagt | aaggcatgtt  | ggacggacag  | 1560 |
| tcaggggaca  | tcccaggaaa  | aaattgtttc  | ccgaggatca | agatcaaaat  | gaacatacaa  | 1620 |
| gtttattatc  | atcatcatca  | caagatgcaa  | tttccattgc | ttcttctatg  | ccaccttcac  | 1680 |
| ccatgggtca  | ctaccaaggg  | tttggacaca  | ctgtgactcc | ccagactaca  | cctaccacag  | 1740 |
| ctaagatatc  | tgatgaaatc  | cctagtgtata | ctataggaga | gaaaaaagaa  | ccttcagata  | 1800 |
| aatccgtgga  | ttcctgaaca  | gtatggaaaa  | gcaaactgtg | caactactac  | atttatctcat | 1860 |
| tacctgggat  | cccattggatt | ttgtgcttgg  | gacagaccat | aaatgatgga  | aaatgtcaac  | 1920 |
| acaaaaatag  | ctgaaagcca  | ggtacaacta  | ctgcatttat | atatgtaagt  | tttgtatatc  | 1980 |
| aaaaataatt  | ggtctaaatt  | tcctagactt  | agacttgatt | tcttaacatt  | agggatatgc  | 2040 |
| atactcaa    | ggtagaca    | gaccccaact  | aaatcttctc | gatgttacac  | tgcttttatca | 2100 |
| agaggatgga  | cttttttttt  | ttgaggcaga  | cagagtcttg | gctctgtcac  | ccaggctgga  | 2160 |
| gtgcagtggc  | gcaatctcgg  | gtcactgcaa  | gctctgcctc | ccaagtccat  | gccatttctcc | 2220 |
| tgcctcagcc  | tcccaagtag  | ctgcactac   | aagcactgc  | caccatgccc  | agctaatttt  | 2280 |
| tttttttcagt | agagacaggg  | tctcaccatg  | ttagccacga | tgctcttgat  | ctgaccttgn  | 2340 |
| gatccgcgca  | cctcggcctt  | ccaaagtgtc  | ggnaatacag | gcgtgagcca  | ctgggccttg  | 2400 |
| ccaagattgg  | gcacttttta  | acatcagaac  | ttcctatcac | tgctgcattg  | agttgtccg   | 2460 |
| catttattag  | aagcattatg  | cctgtacgga  | ttgggg     |             |             | 2496 |

<210> 280  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 280  |             |            |            |            |            |     |
| tcgacccacg | cgtccgggct  | gacatgatgt | atctctgcca | gatgctggca | gttgtggaaa | 60  |
| ctatcaatgc | agcaattgga  | gtcadacgt  | caccgggtgt | gccttctctg | atccagcttc | 120 |
| ttggaagaaa | ttttattttg  | tttatcatct | ttggcaccat | ggaagaaatg | cagaacaaag | 180 |
| ctgtgggttt | ctttgtgttt  | tatttgtgga | gtgcaattga | aattttcagg | tactctttct | 240 |
| acatgctgac | gtgcattgac  | atggattgga | aggtgctcac | atggcttcgt | tacacttgt  | 300 |
| ggattccctt | atatccactg  | gggatgtttg | gcggaagctg | tctcagtgat | tcagtccatt | 360 |
| ccaatattca | atgagaccgg  | acgattcagt | ttcacattgc | catatccagt | gaaaatcaaa | 420 |
| gttagatttt | ccttttttct  | tcagatttat | cttataatga | tatttttagg | gttatacata | 480 |
| aattttcgtc | accttttataa | acagcgcaga | cggcgctatg | gacaaaaaaa | aaaaaaaaaa | 540 |
| aaaaaaaaaa |             |            |            |            |            | 549 |

<210> 281  
 <211> 1001

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (919)..(919)  
<223> n equals a,t,g, or c

<400> 281  
cgcgctggaa ccctgtggcg gcggccatgg ccatatggcg ctgcccgcct ggctgcagcc 60  
aggatatagga agaatgcgta tcttttcac tttactttaa tccagttctg tggccactct 120  
tggatattta caaatatgac agtcagattc ttttcatttg gaaaaggtaa aactccgaaa 180  
cagttttttt atttttaact ttttaatcctt gttttcacct catcctgctt atattaaatt 240  
tctacacacc tcaaccttct accacgggat acagattcaa tggttgacac tttttatgct 300  
attggacttg tgatgcgact ttgccaatcc gtatctctcc tggaaactgct gcacatatat 360  
gttggcattg agtcaaacca tcttctccca aggtttttgc agctcaega aagaataatc 420  
atcctttttg tggatgacac cagtcaagag gaagtccaag agaaatatgt ggtgtgtgtt 480  
ttattcgtct tttggaatct attggatatg gttaggatca cttatagcat gttatcagtc 540  
ataggaatat cctatgctgt cttgacatgg ctacagtcaa cactatggat gccaatttat 600  
cctttgtgtg tttctgtgta agcatttgcc atctatcaat cgctgcctta ttttgaatca 660  
tttggcactt attccaccaa gctgcccttt gacttatcca tctatttccc atatgtgctg 720  
aaaatatatc tcatgatgct ctttataggt atgtatttta cctacagtca tctatactca 780  
gaaagaagag acatcctcgg aatctttccc attaaaaaaa gaagatgtg aagtacagca 840  
ttccagtgtg acacgagaaa agacaggctg tggattcagt gcagtaaata aaacacagga 900  
agtattcttg tggaaaaana aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aawaaaaaaa 960  
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1001

<210> 282  
<211> 1432  
<212> DNA  
<213> Homo sapiens

<400> 282  
acgagagatt taagtgcagc gtggattttt tttttctcac tttgccttgt gttttccact 60  
ccgaaagaat gttgtggctg ctcttttttc tgggtactgc cattcatgct gaactctgtc 120  
aaccagggtgc agaaaatgct tttaaagtga gacttagtatcagaacagct ctgggagata 180  
aagcatatgc ctgggatacc aatgaagaat acctcttcaa agcagatggt gctttctcca 240  
tgagaaaagt tcccaacaga gaagcaacag aaatttccca tgtcctactt tgcaatgtaa 300  
cccagagggt atcattcttg tttgtggtta cagacccttc aaaaaatcac acccttcctg 360  
ctgttgagggt gcaatcagcc ataagaatga acaagaaccg gatcaacaat gccttctttc 420  
taaatgacca aactctggaa tttttaaaaa tcccttccac acttgacca cccatggacc 480  
catctgtgcc catctggatt attatatttg gtgtgatatt ttgcatcatc atagttgcaa 540  
ttgcaactact gattttatca gggatctggc aacgtagaag aaagaacaaa gaaccatctg 600  
aagtggatga cgctgaagat aagtgtgaaa acatgatcac aattgaaaat ggcacccct 660  
ctgatccctt ggacatgaag ggagggcata ttaatgatgc cttcatgaca gaggatgaga 720  
ggctcaccct tctctgaagg gctgttgttc tgcttctca agaaattaaa catttgtttc 780  
tgtgtgactg ctgagcatcc tgaaatacca agagcagatc atatatattg tttcaccatt 840  
cttcttttgt aataaatttt gaatgtgctt gaaagtgaag agcaatcaat tatacccaac 900  
aacaccactg aaatcataag ctattcacga ctcaaatat tctaaaatat ttttctgaca 960  
gtatagtgtg taaatgtggt catgtggtat ttgtagttaa tgatttaagc atttttagaa 1020  
ataagatcag gcatatgtat atattttcac acttcaaaga cctaaggaaa aataaatttt 1080  
ccagtggaga atacatataa tatggtgtag aaatcattga aaatggatcc tttttgacga 1140  
tcacttatat cactctgtat atgactaagt aaacaaaagt gagaagtaat tattgtaaat 1200  
agattggataa aaatggaatt actcatatac aggttggaat tttatcctgt tatcacacca 1260  
acagttgatt atatattttc tgaatatcag cccctaatag gacaattcta tttgttgacc 1320  
atttctacaa tttgtaaaag tccaatctgt gctaacttaa taaagtaata atcatctctt 1380  
tttgattgtg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1432

<210> 283  
 <211> 1048  
 <212> DNA  
 <213> Homo sapiens

```

<400> 283
ccacgcgtcc ggcagtgaac actctttgct aaattttctga ctgaatccaa gatttttcct      60
tagaatagat tcttaaaagt gggggccagg tgcggtggct cacacctata atcccagcac      120
cttgggaggc cgagggtggc agatcattga ggtcaggagt ttgaaaccag cctggccaac      180
atggtgaaac cccgtctcta ctaaaaatac aaaaattagc cagggtgtgtg gggcgtgcgc      240
ctgtagtccc agctacttgg gaggctgagg caggagaatc gcttgagcct gggaagcaga      300
ggttgcatgg gccgggatca cgcactgca ctccagcctg ggtgacagca agactccatc      360
taagaaaaca aaaaaaaaaa gtacgattgg tgcgccagag tgaacacaaa atgtaaagac      420
ttgtgtatTT gtgagaccct tttgaagcat gctatctccc cagctacacc ctcttcaggt      480
gccccctccc tgctcctccc tgcttttcac actgtggctc gtggttccag gcttagcac      540
ggacatcagt gaggactggg agaaagactt tgacttggac atgactgaag aggaggtgca      600
gatggcactt tccaaagtgg atgcctccgg ggaggtgagt gggcctggtg ggtcagaggg      660
aagcgagcct aatggtcctg ggtgtgagag ctctccccag ccagcccagc tgtccccctca      720
ggaggggtccc tgctcctgtc tgaggtgaca ggtgggtggga aaggagctgg agcttcctgc      780
tcagaccac aacattggtc atcagcaggc tgcacttttc ctgagttcca ggttggatag      840
agggtcaagt tcttgacctt agctctgtat caaaattgcc tgagaaactg cttaagaaaa      900
cagatgtcat gctgagcacg gtggctcaca cctgtaatcc caacacttg ggaggccaag      960
gtgggaggat tgcttgaggc gaggagttca agaccagcct ggccaatata gtgagacccc     1020
atttctgttt ttgaaaaaaa aaaaaaaaaa                                1048

```

<210> 284  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (971)..(971)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1004)..(1004)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1008)..(1008)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1010)..(1010)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1018)..(1018)  
 <223> n equals a,t,g, or c

<400> 284

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ggccgccectt | tttttttttt | tttttttttt  | tttttttttt  | ttttggcectt | agtcacacatt | 60   |
| tcttgaataaa | tacaaatagg | taagacaatt  | ttacaaaaat  | tgtgctatag  | aataggatt   | 120  |
| ttgtgacttt  | ttagatgaaa | tattagagct  | acccacacca  | gccacagata  | gcaactgtaac | 180  |
| actttcttaa  | tagagtatag | gttcaaatta  | taaagtcac   | acactggcta  | aaaagttcaa  | 240  |
| gttcagagtt  | tcaatcaatt | ttcattgtaa  | ggatgaaact  | gagttttact  | caacttgtgt  | 300  |
| ctttttaaga  | gaatgggcca | ctccacac    | atcctttctc  | ttggactttt  | tttaacactt  | 360  |
| ctaattgttct | gtatcacgaa | atcagatggc  | caaaacaaaa  | tctacagggtg | ctttaaaaaa  | 420  |
| gcaagtcccc  | aagtgattgt | taccatacc   | aaaatgagaa  | ttgctgctat  | aatctgttct  | 480  |
| tactggamtg  | gccakgccaa | tcttgggact  | aggattaaat  | tgcaattaaa  | tckgcagt    | 540  |
| tacaaaattt  | ttgtcagtct | gyctagaaaa  | agaaagagaa  | ctctttcatg  | gtagagcagt  | 600  |
| tactgtgctc  | acgttgcttt | ttctaaaaac  | caacctactt  | tcaaacaaag  | aatgaggaaa  | 660  |
| tttgtagtaa  | attttaaata | tgagtcacgg  | aaatattaag  | ataatagcat  | gtgtgggcaa  | 720  |
| taataagtat  | gccaagaat  | aaagagtaat  | atacaaaaaca | atcaaacatt  | attacatttg  | 780  |
| gctacgaggt  | tcctaataaa | cagggcacaaa | taaatagtga  | aatataataa  | aatcgttatc  | 840  |
| atctgataaa  | agctgcatg  | gtacttttcc  | caaacgtaat  | ggatgacttc  | aacacatttt  | 900  |
| cttattaaat  | atttcaaat  | gtttcttcat  | gtgaaaactg  | tcttataat   | tgtaaaaagg  | 960  |
| atgtaacttg  | nataggcatg | ctcaacaggg  | gtaagagtaa  | ttcngtangn  | gccccctnga  | 1020 |
| t           |            |             |             |             |             | 1021 |

<210> 285

<211> 1492

<212> DNA

<213> Homo sapiens

<400> 285

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| gccttcccac | actccattcc | ctgtcaagtt | atggctgtcc  | cctcacccca | gctgctccta  | 60   |
| gagaggccct | tkttacctgt | gtcattcatg | tttctaacia  | gccaccctcc | accccgctctt | 120  |
| gtgtgcccc  | tgcacctgtg | catctgtgct | gtgtgggtgt  | tggtggccct | tttgcgcatg  | 180  |
| catggggcat | ccctgcccc  | gaccagcggg | acaaggagcg  | ggaacgcgg  | ctgcaggagg  | 240  |
| cacggggccg | gccaggggag | gggcgcgcca | acacagccac  | tgagaccacc | acgaggcaca  | 300  |
| gccagcgggc | agctgatggc | tctgctgtca | gcactgttac  | caagactgag | cggctcgtcc  | 360  |
| actccaatga | tggcacacgg | acggccccga | ccaccacagt  | ggagtcgagt | ttcgtgaggc  | 420  |
| gctcggagaa | tggcagtggc | agcaccatga | tgcaaaccac  | gaccttctcc | tcttctctct  | 480  |
| catccaagaa | gatgggcagc | atcttcgacc | gcgargacca  | ggccagccca | cgggcccggca | 540  |
| gcctggcggc | gctcgagaaa | cggcaggccg | agaagaagaa  | agagctgatg | aaggcgaga   | 600  |
| gtctgcccc  | gacctcagcc | tcccaggcgc | gcaaggccat  | gattgaraag | ctggagaagg  | 660  |
| agggcgcggc | cggcagccct | ggcggacccc | gcgcagccgt  | gcagcgatcc | accagcttcg  | 720  |
| gggtccccc  | cgccaacagc | atcaagcaga | tgctgctgga  | ctggtgtcga | gccaagactc  | 780  |
| gcggtacga  | gcacgtcgac | atccagaact | tctcctccag  | ctggagtgat | gggatggcct  | 840  |
| tctgtgccct | ggtgcacaac | ttcttccctg | aggccttcga  | ctatgggcag | cttagccctc  | 900  |
| agaaccgacg | ccagaacttc | gaggtggcct | tctcatctgc  | ggagacccat | gcggactgcc  | 960  |
| cgcagctcct | ggatacagag | gacatgggtc | ggcttcgaga  | gcctgactgg | aagtgcgtgt  | 1020 |
| acacgtacat | ccaggaattc | taccgctgtc | tggtcagaa   | ggggctggta | aaaacacaaa  | 1080 |
| agtcctaamc | cctgctcggg | gccccacgga | tgctgggtgga | ctgtgtgccc | ctgggtggagg | 1140 |
| tggacgacat | gatgatcatg | ggcaagaagc | ctgaccccaa  | gtgtgtcttc | acctatgtgc  | 1200 |
| agtcgctcta | caaccacctg | cgacgccacg | aactgcgcct  | gcgcggcaag | aatgtctagc  | 1260 |
| ctgcccgcgc | gcatggccag | ccagtggcaa | gctgccgcgc  | ccactctccg | ggcaccgtct  | 1320 |
| cctgcctgtg | cgtccgcccc | cgcctgccct | gtctgttgcg  | acaccctccc | ccccacatac  | 1380 |
| acacgcagcg | ttttgataaa | ttattggttt | tcaamraaaa  | aaaaaaaaaa | aaaaaaaaaa  | 1440 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | ag          | 1492 |

<210> 286

<211> 1543

<212> DNA

<213> Homo sapiens

<400> 286

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ggcacgagat  | ttgattctca  | tgctcctttc  | aaaagagcat | actagtttgg | ggtgggttgg  | 60   |
| tattttctta  | accttagcaa  | gccagcttat  | ttcctatgga | agcagaactg | gaaacagcag  | 102  |
| atgtccacca  | tgcttataca  | ggacactaca  | cactgtctcg | acaagccatg | ttctttcctc  | 180  |
| cctcttcgtg  | agcactttct  | ctgggtgatga | gtagtatagg | actacttgaa | cctcaaaact  | 240  |
| gggcctctca  | cccaaagcca  | aatgaagtag  | cgtatgccag | gatgatgttt | cttttgggcc  | 300  |
| gttggcagtg  | agactgctaa  | gcaggctgac  | ttaggttttg | ctgtggcaat | gctagcagat  | 360  |
| tgttccctct  | ttcaaagggg  | caaaaatata  | attttggtat | gataactgac | tttctattta  | 420  |
| cagtttctgg  | ccccaaaga   | caaaccaagt  | ggagacacag | cagctgtatt | tgaagaaggt  | 480  |
| ggtgatgtgg  | acgatttagt  | aagtactttt  | aatatgcacc | tggtgttctg | tgattgaagt  | 540  |
| cacctgagct  | gtaaatacag  | ccacaaaggc  | tgattatctt | acacttggtg | cttatttgtg  | 600  |
| ttttaatttc  | caatacacca  | gaagcttcct  | acaccattat | atattgccat | tataaattca  | 660  |
| atcagatagg  | taatttcata  | atagaaattc  | ctgtgtttca | tggtgtcggc | tatattgttc  | 720  |
| attcagatta  | atcctctccc  | ttgagggtct  | gaaaaagact | aggagctat  | tccattagta  | 780  |
| gcaaaatggt  | gtaattcact  | gaaattgctg  | ttaaccaaaa | ataagtaata | caacatggca  | 840  |
| ttttgtgtgg  | gttgacaaat  | gaaacaggcc  | ttaaaagggc | tacttcttaa | atgttctcaa  | 900  |
| ttactttaat  | gtaaacaaaa  | tagaccgata  | ggcatttgag | gatttctgga | ccatttaca   | 960  |
| ccatgttggt  | gatgtctggg  | aagctgtgta  | gtaaatgtct | tttgtatcta | tccttaaatgt | 1020 |
| ttggaaactt  | ccgcctttta  | agcttcataat | gacaactgac | caacaaacac | tacgtactat  | 1080 |
| gatgtcaatc  | tttttttagag | acattctcat  | tactaaaatg | agtggatact | tgaatgttta  | 1140 |
| actcctaaaa  | taatgagggg  | tgaataaatg  | agcaagtaca | tgcatgcctt | ccaatgtaga  | 1200 |
| gtcatttttca | ttaaaccctc  | tctcaccaga  | gaagcagtgg | tatgaaattg | gcctgattcc  | 1260 |
| tttctaagtg  | tgttgttctt  | gttcacagtt  | ggacatgata | taggtcgtgg | atgtatgggg  | 1320 |
| aatctaagag  | agctgccatc  | gctgtgatgc  | tgggagttct | aacaaaaca  | gttggatgcg  | 1380 |
| gccattcaag  | gggagccaaa  | atctcaagaa  | attcccagca | ggttacctgg | aggcggatca  | 1440 |
| tctaattctc  | tgtggaatga  | atacacacat  | atatattaca | agggataatt | tagaccccat  | 1500 |
| acaagtttat  | aaagagtcac  | tgttaaaaaa  | aaaaaaaaaa | aaa        |             | 1543 |

<210> 287

<211> 954

<212> DNA

<213> Homo sapiens

<400> 287

|            |            |             |             |             |             |     |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gaattcggca | cgagcccaca | ccaaacctgt  | ggacgccgac  | ccgggaccgc  | cgctggctgg  | 60  |
| ctgctggctc | actcgaccgt | catggagacc  | ctggggggccc | ttctgggtgct | ggagtttctg  | 120 |
| ctcctctccc | cggtggaggc | ccagcaggcc  | acggagcacc  | gcctgaagc   | gtggctgggtg | 180 |
| ggcctggctg | cggtagtcgg | cttcctgttc  | atcgtctatt  | tggtcttgct  | ggccaaccgc  | 240 |
| ctctgggtgt | ccaaggccag | ggctgaggac  | gaggaggaga  | ccacgttcag  | aatggagtcc  | 300 |
| aacctatacc | aggaccagag | tgaagacaag  | agagagaaga  | aagaggccaa  | ggagaaagaa  | 360 |
| gagaagagga | agaaggagaa | aaagacagca  | aaggaaggag  | agagcaactt  | gggactggat  | 420 |
| ctggaggaaa | aagagcccgg | agaccatgag  | agagcaaaaga | gcacagtcac  | gtgaagattc  | 480 |
| ctggtctgct | cttcaggcca | gtcccccaga  | gatgcctctt  | ctgcccccta  | aaagcagtgc  | 540 |
| cctggacttg | aagcccgtga | aatgactcca  | tctgggattc  | agatacagt   | gttctcaagt  | 600 |
| gaagaaggct | tggaaccac  | cccacctccc  | tcattggggg  | ctctctgggc  | aaacatgggt  | 660 |
| ttcatgcacc | cctcttcctg | agcttgggtcc | ctgcctgggtg | attcttctta  | tactcggaga  | 720 |
| gcacccctgg | ttgaggagac | acccgcaatc  | ctccacgata  | tcatgggtcc  | acctgcttct  | 780 |
| ccccactgcc | tgattttctt | tctctctgcc  | tgatgtctac  | tgaacagaac  | ttcccctctc  | 840 |
| ccatgcaccc | actgccagct | gagagctgct  | tcccaatggc  | ctgcattaaa  | gcattcgtaa  | 900 |
| cagccaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | tcga        | 954 |

<210> 288

<211> 2784

<212> DNA

<213> Homo sapiens

<400> 288

|            |            |            |            |            |             |    |
|------------|------------|------------|------------|------------|-------------|----|
| ggcacgagga | actctgagca | ccgtggcttc | cagcatcaat | gccttggcaa | cagtgcacctt | 60 |
|------------|------------|------------|------------|------------|-------------|----|



|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tgaggatttt  | gtcaagagct  | gttttccctca | tctctccgac  | aagctgagca  | cctggatcag  | 120  |
| taaaggctta  | tgtctcttat  | ttggcgtgat  | gtgtacctct  | atggctgtgg  | ctgcatctgt  | 180  |
| catgggaggt  | gttgtgcagg  | cttccctcag  | cattcacggc  | atgtgtggag  | gaccaatgct  | 240  |
| gggcttattc  | tccctgggaa  | tcgtgttccc  | ttttgtgaat  | tggaagggtg  | cactaggagg  | 300  |
| tcttcttact  | ggaatcacct  | tgtcattttg  | gggtggccatt | ggggccttca  | tttaccctgc  | 360  |
| accagcctct  | aagacatggc  | ctttgcctct  | atcaacgac   | caatgtatca  | aatcaaatgt  | 420  |
| gacagcaaca  | gggcctccag  | tactatccag  | cagacctgga  | atagctgata  | cctggctactc | 480  |
| gatctcctac  | ctttactaca  | gtgcagtggg  | ctgcttagga  | tgcattgttg  | ctggagtaat  | 540  |
| catcagcctc  | ataacaggtc  | gccaagagg   | tgaggatatt  | caaccactgt  | taattagacc  | 600  |
| agtttgtaat  | ttattttgct  | tttgggtctaa | gaagtacaaa  | acactatgct  | ggtgtggagt  | 660  |
| tcagcatgac  | agtgggacag  | agcaggaaaa  | ccttgagaat  | ggcagtggcc  | ggaaacaggg  | 720  |
| ggctgaatct  | gtcttacaga  | atggactcag  | gagagaaaagc | ctggtacatg  | ttccaggcta  | 780  |
| tgatcctaag  | gacaaaagct  | acaacaatat  | ctcatttgag  | actaccatt   | tctaaggcaa  | 840  |
| tacctgtatg  | aacgcacaca  | cacacgtgca  | atacacacac  | acacacacac  | acacacacac  | 900  |
| acaaactcca  | catacttctt  | gcctacttgt  | tagtagatat  | gtatagtgtc  | cattgtctaga | 960  |
| agacagggat  | gtctgggtgcc | tatttctact  | tatttataac  | tacatgcaa   | atgactatct  | 1020 |
| ctcgggatat  | tcttagaaaag | actccaactt  | tcacagagaa  | aaaccaacct  | gtcccaaagt  | 1080 |
| cccttgacta  | cttccttctt  | gaataaatta  | gggctggatt  | tcattaccat  | tcaagaaagc  | 1140 |
| gaagtctttt  | tgcttgggtg  | catattaaac  | ttcaggtttt  | tcgttttagt  | agttttttaa  | 1200 |
| ccatcaaaat  | atcttggagt  | ttagaggcag  | aacgggaaac  | agaaatatgc  | atatttaaca  | 1260 |
| ctttcctgcc  | acgagggata  | aaatagagga  | atgacatcca  | cccccgacct  | catacctgac  | 1320 |
| atacatgtag  | acataattta  | tgccacccat  | ctcccatcct  | gtagctacaa  | ttggcataca  | 1380 |
| actactatta  | acctcccttc  | accaccactg  | tcaggctctc  | ttccagtcac  | tcctcattag  | 1440 |
| ctgtcctgac  | caaacattaa  | aaaaaaaaatt | cagctaaata  | cagaagaaga  | tggtatgtct  | 1500 |
| ggctagtggg  | agtgattata  | actaaaaact  | ttgctccttt  | tgtgctgtcc  | atgcagtatg  | 1560 |
| tcttcttcct  | ttctatcact  | ttacaatgaa  | aaattgcctc  | agagctcaat  | aagaagtctg  | 1620 |
| gagccttttt  | ccagggctaa  | ggaaagagaa  | aaggaatgtc  | ctatagaagg  | ttgttaggat  | 1680 |
| agaatttggt  | aaaagaacgt  | tgcagatatt  | gtaacagacc  | ataggagatt  | tcacagcaa   | 1740 |
| taggattctt  | ctttggagaa  | aatacattgt  | ccataagact  | tgtactctat  | tcattcaact  | 1800 |
| catgtgagca  | agctcaactc  | actccacctg  | ggttaggtaa  | cagaagtggg  | gacttcata   | 1860 |
| gttcgtgtct  | agaaaataat  | gtttaaagtt  | ctggagaatg  | agggtattgc  | agattaaaag  | 1920 |
| gcgagttgac  | aaatgaagga  | gcagtgaag   | atTTTTggaa  | gaagtgaaga  | agtgaatttc  | 1980 |
| tgaaaaggta  | aaagaaagaa  | ccagtatgtc  | acaggggcca  | agtcagagga  | cagataataa  | 2040 |
| gaaacaaagt  | tgtatctgag  | agtcatatat  | taggacaggt  | gtcagatatt  | tattttgggtg | 2100 |
| gccagataaa  | agcaaaaggc  | ctagaaacag  | tgtgttagca  | aagtaagaag  | aatgggtcca  | 2160 |
| aataggcaag  | gataaaagtt  | tccaaagggt  | gtctttaaat  | atttctcaaa  | agagaaagcc  | 2220 |
| ttgaaagaag  | catacaatat  | agaaaaaata  | aattaccagt  | atttatatt   | agaaaagata  | 2280 |
| gaaagacaga  | caaatcagtg  | gaggaattaa  | aacagagaaa  | ctggagttta  | taaaacagag  | 2340 |
| cccaatcctt  | gccttctctc  | cctccactca  | aatagaaaag  | gagaatggag  | aaagagaaag  | 2400 |
| aagggtattag | gctacagttt  | ataagagaga  | tgagaaaaaa  | atacatttgg  | gaatagaggg  | 2460 |
| aaagggtcaa  | aaggggtcac  | atttgagaaa  | atatctgaaa  | atgagaagga  | gcagaatttt  | 2520 |
| tggaaacatt  | ttttaagtc   | tggcaacgct  | aattaagctg  | ttgatctaag  | gatttgcaaa  | 2580 |
| ttgagaggtg  | caattatttt  | ccaaatgatt  | tgtgacactc  | ttattaatta  | gaatatatat  | 2640 |
| tctgtgaata  | ttgaaatctg  | agccaaaact  | agtttagcttt | attaatatct  | tagggaaaaga | 2700 |
| agagagaaaag | aaagagggag  | ggagagagag  | aaagaaagaa  | agaaagaaaag | aaagaaagaa  | 2760 |
| agaaagaaaa  | aaaaaaaaaa  | aaaa        |             |             |             | 2784 |

<210> 289  
 <211> 943  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 289  |            |            |            |             |            |     |
| gtattttcaa | gggtctgtcc | tggtatagca | cataacggaa | cttcattcct  | tttttaaaag | 60  |
| atataattca | tgtaccaggt | gattcacccc | tttaaagtct | caaattcagt  | ggtttttagt | 120 |
| atatttccag | aattgtgcag | ttatcactag | gagcaatttt | agaatgtttt  | catcacccgg | 180 |
| aaagaaactc | tatatccata | cgcagcctct | ccccatttct | cccccaacccc | cagccctagg | 240 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| caaccactca | tctgctttcc | gtgtctgtag | gattgcttgt | tctggaaatg | ttgtatacat | 300 |
| ggaatcatgc | actgtgaact | cttgtgtgtc | acagaaggat | catgtttcca | tggtgcgtct | 360 |
| gtgtcatagc | atgtatcagt | gcagtaaccc | cccttatcca | agggtttact | ttctgcagtt | 420 |
| tcagttaccc | acagtacagt | acagtaagat | attttgagag | agagaccaca | ctcacattac | 480 |
| ttttattgta | atatatcggt | ataattgttc | tatttgatta | ttggtgttaa | tctcttactg | 540 |
| tgccttattt | agaagttaga | ctttgtcata | agtatgtatg | tataggagaa | aagatagtat | 600 |
| atataagggt | tggtgctatc | cacagtttcg | gacabccct  | gggggtcttg | gaatgtawcc | 660 |
| tgtggataag | cgggaccact | gtacttcatt | cttttttatt | gtcaaataat | attyatkgk  | 720 |
| gtggctawgc | catawtttgc | cyattcattc | gtcagttggt | agacatttga | ggtgtttcca | 780 |
| twttttggct | tttgtgaaga | atcctaggcc | gggcacagtg | gctcatactc | ctgggacctt | 840 |
| gggaggccaa | gacgggacga | tcacttgagc | tcaggaattt | aagaccagcc | tgggcaacat | 900 |
| agtgagactc | tgtctctaca | aaaaaaaaaa | aaaaaaactc | gag        |            | 943 |

<210> 290  
 <211> 887  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (303)..(303)  
 <223> n equals a,t,g, or c

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 290   |            |            |             |            |             |     |
| ggcacgagag  | aattataggt | gcatgatggg | gcttttggag  | actggcaatg | ttctgttttg  | 60  |
| ggtctgggta  | gtggttactt | gtgtgtattc | actttatgct  | aactcattga | actgtacaga  | 120 |
| tatggactgt  | gcccctttct | atatgtgtgt | aatgcttcaa  | caaaagtgtc | aatagtgatg  | 180 |
| catgcacatg  | ttaaaatttc | aaactatatt | aaagagtgtg  | caattaaaag | gaagttatcc  | 240 |
| tctcactcta  | aagtcctatt | tcctctcttc | agtcctatcat | tactactagt | ttctagtata  | 300 |
| tcnttttagaa | atgkgctgta | aaagaacaat | gatgtgtatg  | tctctacagg | tatatattta  | 360 |
| ttctttttgt  | aattacaaaa | atataaaatc | actacatatg  | ttattctacc | acatgctttt  | 420 |
| tttcatgtaa  | cagtatgtct | tagacatctt | ttcctattat  | tgcgtggaag | ctatcaacct  | 480 |
| tattctttgt  | aatgactcca | taaattattc | tactgtgaaa  | acacaccatg | tttaaccagt  | 540 |
| tctctgttag  | tgaacattta | ggatttttcc | agttttttaa  | tattacagtg | acataattaa  | 600 |
| cattaaacat  | atcttttgac | acatgtcctt | gcacacatgt  | ataggtatga | tggacttttaa | 660 |
| cacccttttg  | ctagattctt | tagcacataa | cgtaaataatc | ccatagagtc | aaaaccaccc  | 720 |
| ttaaaacttc  | ctcaggaggc | tgggtgtggt | ggctcacgcc  | cgtaatccca | gcacttttagg | 780 |
| aggccgaggt  | gggcggatca | gaggtcagg  | agatcgagac  | catcctggcc | aacatggtga  | 840 |
| aaccctgtct  | ctactaaaaa | tacaaaaaaa | aaaaaaaaaa  | actcgta    |             | 887 |

<210> 291  
 <211> 1478  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |              |            |     |
|------------|------------|------------|------------|--------------|------------|-----|
| <400> 291  |            |            |            |              |            |     |
| ggcacgagga | gggcggaagt | gggagctgcg | accgcgctcc | ctgtgaggtg   | ggcaagggc  | 60  |
| gaaatggcgc | cctccgggag | tcttgcaatt | cccctggcag | tccctgggtgct | gttgcttttg | 120 |
| ggtgctccct | ggacgcacgg | gcggcggagc | aacgttcgcg | tcatcacgga   | cgagaactgg | 180 |
| agagaactgc | tggaaggaga | ctggatgata | gaattttatg | ccccgtgggtg  | ccctgcttgt | 240 |
| caaaatcttc | aaccggaatg | ggaaagtttt | gctgaatggg | gagaagatct   | tgagggtaat | 300 |
| attgcgaaag | tagatgtcac | agagcagcca | ggactgagtg | gacggtttat   | cataactgct | 360 |
| cttcctacta | tttatcattg | taaagatggt | gaatttaggc | gctatcaggg   | tccaaggact | 420 |
| aagaaggact | tcataaactt | tataagtgat | aaagagtgga | agagtattga   | gccgtttca  | 480 |
| tcatggtttg | gtccaggttc | tgttctgatg | agtagtatgt | cagcactctt   | tcagctatct | 540 |
| atgtggatca | ggacttgcca | taactacttt | attgaagacc | ttggattgcc   | agtgtgggga | 600 |
| tcatatactg | tttttgcttt | agcaactctg | ttttccggac | tgttattagg   | actctgtatg | 660 |

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| atattttgtgg | cagattgcct | ttgtccttca | aaaaggcgca | gaccacagcc  | gtacccatac  | 720  |
| ccttcaaaaa  | aattattatc | agaatctgca | caacctttga | aaaaagtgga  | ggaggaacaa  | 780  |
| gaggcgcatg  | aagaagatgt | ttcagaagaa | gaagctgaaa | gtaaagaagg  | aacaaacaaa  | 840  |
| gactttccac  | agaatgccat | aagacaacgc | tctctgggtc | catcatggc   | cacagataaa  | 900  |
| tcctagttaa  | attttatagt | tatcttaata | ttatgatttt | gataaaaaaca | gaagattgat  | 960  |
| cattttgttt  | ggtttgaagt | gaactgtgac | ttttttgaat | attgcagggg  | tcagtctaga  | 1020 |
| ttgtcattaa  | attgaagagt | ctacattcag | aacataaaag | cactaggtat  | acaagtttga  | 1080 |
| aatatgattt  | aagcacagta | tgatgggtta | aatagttctc | taatttttga  | aaaatcgtgc  | 1140 |
| caagcaataa  | gatttatgta | tatttggtta | ataataacct | atttcaagtc  | tgagttttga  | 1200 |
| aaattttacat | ttcccaagta | ttgcattatt | gaggtattta | agaagattat  | tttagagaaa  | 1260 |
| aatattttctc | atttgatata | atttttctct | gtttcactgt | gtgaaaaaaa  | gaagatatatt | 1320 |
| cccataaatg  | ggaagtttgc | ccattgtctc | aagaaatgtg | tatttcagtg  | acaattttcgt | 1380 |
| ggctttttta  | gaggtatatt | ccaaaatttc | cttgattttt | taggttatgc  | aactaataaa  | 1440 |
| aactacctta  | cattaattaa | aaaaaaaaaa | aaaaaaaaa  |             |             | 1478 |

<210> 292  
 <211> 1780  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 292   |            |             |             |             |             |      |
| tattttgggat | tatactgaac | ctattttgtcc | aataacctga  | gttttcaa    | aat         | 60   |
| ctataagtac  | tataattata | taaatattaa  | tgaattcaga  | ttagctgaaa  | ggaaaaaaag  | 120  |
| tagaagcctg  | actacttggg | gctaactact  | aaagattttg  | gcagaatcaa  | tggttgattt  | 180  |
| ggctttcctg  | tcccttcccc | atgccagccc  | cccagagtgt  | tctgccttgt  | gctgcctccc  | 240  |
| ttcacckgga  | gtgccacacc | cctctctctg  | ccagttcagc  | tcttcattct  | tcaaggcctg  | 300  |
| accttgtctg  | acccttgtgc | ctctaaaccc  | gtggcccccac | ctctcttggg  | cacgagctat  | 360  |
| gtcaggtgat  | gtttgtgttt | ttgggttatgc | ccatctccat  | agccagacca  | agcactctgg  | 420  |
| aagccagggg  | tgggtgctta | tttatctgtt  | tgccatgcag  | aaaatatctt  | gcacaaaatt  | 480  |
| acctctgtta  | aggaatctga | agctgaattt  | agtttggtctg | agtcaggggt  | gggttttttt  | 540  |
| taaggggctg  | tggggtgaaa | tggtgactgg  | aagcaccaca  | caaacacaca  | cctgctgggt  | 600  |
| aggaaccccg  | ctgtgggtgg | ttctgagctg  | tttggcttca  | ttgacagttt  | ctgattgccc  | 660  |
| tgagcaccag  | gtctcatctt | gcactctcat  | ctggcctgga  | gaacattcag  | tttcttcca   | 720  |
| acccttccca  | cctttccccc | actcccttgg  | aggaactgaa  | gttgggggtg  | aggagagcca  | 780  |
| gatggctgga  | gtgggtattt | gaagggtcttt | ctgtcacctg  | ttcagtggtg  | tctgccccac  | 840  |
| ccctgctgac  | caagactgac | tgaaatgtaa  | aataatacag  | accatctcaa  | ctcagaaagc  | 900  |
| tggcacattt  | ttgaaagccc | aagtgtgggt  | aagtgcgtgg  | aacaacgata  | attcacactg  | 960  |
| ctttatgagt  | agaaattgtg | agaaatatgt  | tgccaggcaa  | tttgcaaaat  | cttggaaagg  | 1020 |
| tgtgtgcact  | taaccaccca | gcaactactc  | ctggatgcat  | cctagagaag  | tgccatgtga  | 1080 |
| acagagaatg  | attttaagac | ttcactgaag  | tattgttttag | gtagcaagat  | tgggaaaagc  | 1140 |
| ctgcatttca  | tcagcagaag | aatggataaa  | taaatgagtt  | gtttttgggtc | cttggaaaagt | 1200 |
| gaatatgaaa  | gagttacgtc | tcaacacaga  | tagatgaaaa  | attatgctga  | gaaagtttgt  | 1260 |
| gaagctacat  | acaaggtacc | cttagtgtaa  | agttaagcat  | actgtgtacc  | tgtgggcacg  | 1320 |
| ttacttcaac  | ttgtttttca | ctttttctgt  | aaaatgggat  | agtagtggca  | atctcacagg  | 1380 |
| gtgattgtgg  | gtgggggggt | ggtaaatgaa  | gtaatgcatg  | taaaatgctt  | agaatagtgt  | 1440 |
| ctagcatgta  | agccttgtgg | acatatagaa  | agtgttattg  | ttttgcacag  | taatctattt  | 1500 |
| tctgtggatt  | caaataatat | gaaatgagta  | taaaatcatg  | tattggaacg  | atgtgtgcaa  | 1560 |
| gtcaccattc  | tgcttcccta | aggcaggaga  | cctgatggat  | ttgggggggg  | tactgggggc  | 1620 |
| cttcagttgt  | gttttctttg | tttttttcta  | aaaattgatg  | cagagggcatc | acaatgttaa  | 1680 |
| gattttaaca  | gggtagtgtg | gtgggtactt  | tttaactgtt  | tgcttaaagt  | gtttcaaaagt | 1740 |
| aaaaatattt  | cttaaaaaaa | aaaaaaaaaa  | aaaaaaaaa   |             |             | 1780 |

<210> 293  
 <211> 1984  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (598)..(598)  
 <223> n equals a,t,g, or c

<400> 293  
 ccaagctcga aattaaccct cactaaaggg aacaaaagct ggagctccac cgcggtggcg 60  
 gccgctctag aactagtgga tccccggggc tgcaggaatt cggcacgagggcgccctctg 120  
 cgcctacgcg gtcacctaca cagcgatgta cgtgactctc gtgttccgcg tgaagggctc 180  
 ccgcctggtc aaaccctcgc tctgcctggc cttgctgtgc ccggccttcc tgggtgggcgt 240  
 ggtccgcgtg gccgagtacc gaaaccactg gtcggacgtg ctggctggct tcctgacagg 300  
 ggccggccatc gccacctttt tggtcacctg cgttgtgcat aactttcaga gccggccacc 360  
 ctctggccga aggtctctctc ccagagtgc ctacctcgc ctgcttgggc ctgagtttcc 420  
 acatctgcac aatgggggtg accatccctg ccctgctggc tgccaggagc ggctgtgagt 480  
 cttcaggcgt ggatgcagcc tgggggaagc catagggcgc tttcaggc ctggccttca 540  
 ccatggcggg agggagaccg catctgaaga ggagtttctc catcatcccc tgctttgnct 600  
 tcgtggagtc ggtgctgctg ggcattgkga tccctccaggg cccagcccat gtgttcgtcg 660  
 ccccgctgtgc cccgtcctcg attgaggtct gagccgacgc ccttgccccct gccctaccc 720  
 ctgccagcgc ccacccccag ccaggggccc tcgccttctt cccctggacc tgggggggcca 780  
 ggccgggggtg gtggacgtgg ccggaagctg ctgctgcccc cggccctgct gcgggacctg 840  
 tacaccctga gtggaactta tccctcccc ttccaccggg acaacttcag cccttacctg 900  
 tttgccagcc gtgaccacct gctgtgaggc ccgaccacccaccagaatc tgcccagtc 960  
 ccacttcttc cctgccacgc gtgtgtgtgc gtgtgccacg tgagtgccaa agtcccctgc 1020  
 cccccaagcc agccagacc agacattaga agatggctag aaggacattt aggagacatc 1080  
 tgcctctctg gccctctgag atatcccgat gggcacaaat ggaagggtgc cacttgcccc 1140  
 tactattgcc cttttaaggg ccaaagcttg accccatttg ccattgctg gctaatagaga 1200  
 acccctggtt ctgagaattt taaccaaaag gagttggctc caaccaatgg gagccttccc 1260  
 ctacttctt agaactctcc tgcaagagg caactccagc cagtgttcag cgactgaaca 1320  
 gccaatagga gcccttgggt tccagaattt ctaggtggg tgggcatgat tccagtcaat 1380  
 gggggaccgc ccgtgtctaa gcatgtgcaa aggagaggag ggagatgagg tcattgtttg 1440  
 tcattgagtc ttctctcaga atcagcagc ccagctgtag ggtggggggc aggctcccc 1500  
 atggcagggt ccttggggta ccccttttcc tctcagcccc tccctgtgtg cggcctctcc 1560  
 acctctcacc cactctctcc taatccccca cttaagtagg gcttgcccca cttcagagg 1620  
 tttgggggtt aggggtgctg gtctccccct gcctgtgccc aggtcatccc aaacccttct 1680  
 gttatttatt agggctgtgg gaagggtttt tcttcttttt cttggaacct gccctgttc 1740  
 ttcacactgc ccccatgcc tcagcctca acagatgtgc catcatgggg ggcattgggtg 1800  
 gagcagagg gctccctcac ccggggcagg caaaggcagt gggtagagga ggcactgccc 1860  
 ccctttctctg cccctctctc atctttaata aagacctggc ttctcatctt taataaagac 1920  
 ctgtttgtaa cagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980  
 aaaa 1984

<210> 294  
 <211> 1222  
 <212> DNA  
 <213> Homo sapiens

<400> 294  
 aattcccggt tcgacccacg cgtccgagcc cagcaacgtg caaggggaaa ggggacagga 60  
 ttctggatgg ccatttgctt cactgggag caaaacctct tttgagtact agaatacagta 120  
 tttcttcttc catctctgct gtacctgaga agaaatggcc aaacgcacct tctctaactt 180  
 ggagacattc ctgattttcc tccctgtaat gatgagtgcc atcacagtgg cccttctcag 240  
 cctcttggtt atcaccagtg ggaccattga aaaccacaaa gatttaggag gccattttt 300  
 ttcaaccacc caaagccctc cagccacca gggctccaca gccgcccaac gctccacagc 360  
 caccagcat tocacagcca ccagagctc cacagccact caaacttctc cagtgccttt 420  
 aacccagag tctcctctat ttcagaactt cagtggctac catattggtg ttggacgagc 480  
 tgactgcaca ggacaagtag cagatatcaa tttgatgggc tatggcaaat ccggccagaa 540  
 tgcacagggc atcctcacca ggctatacag tcgtgccttc atcatggcag aacctgatgg 600

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| gtccaatcga | acagtgtttg | tcagcatcga | cataggcatg  | gtatcccaaa | ggctcaggct  | 660  |
| ggaggtcctg | aacagactgc | agagtaaata | tggctccctg  | tacagaagag | atatgtcat   | 720  |
| cctgagtggc | actcacactc | attcagggtc | tgcaggatat  | ttccagtata | ccgtgtttgt  | 780  |
| aattgccagt | gaaggattta | gcaatcaaac | ttttcagcac  | atggctactg | gtatcttgaa  | 840  |
| gagcattgac | ataccacaca | caaatatgaa | accaggcaaa  | atcttcatca | ataaaggaaa  | 900  |
| tgtggatggt | gtgcagatca | acagaagtcc | gtattctttac | cttcaaaatc | cgcagtcaga  | 960  |
| gagagcaagg | tattcttcaa | atacagacaa | ggaaatgata  | gttttgaaaa | tggtagattt  | 1020 |
| gaatggagat | gacttggggc | ttatcagttt | ttcattcagc  | aagtctgcac | tagggaccta  | 1080 |
| ctatgagcca | cgcaatactt | ccttggaatg | atgtattccc  | tggccttga  | ataaggaatc  | 1140 |
| tagtaccat  | gtttgtgcta | ctggaatgaa | tccattaaac  | tctctgagac | tcaaaaaaaaa | 1200 |
| aaaaaaaaaa | aaaaaaaaag | gc         |             |            |             | 1222 |

<210> 295  
 <211> 1815  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| <400> 295   |            |            |             |             |             |      |
| cacgcgtccg  | cggacgttgg | gctcaatctc | ctgaccttgt  | gatctgcccg  | cctcggcctc  | 60   |
| ccaaagtgtc  | gggtttacag | gcatgagcca | cagcgcccgg  | ctgagtattg  | ggcttttagg  | 120  |
| ggtcaaaact  | tttgatcttt | gcttgacgtt | tttgtttttt  | tctctttttac | actctccctg  | 180  |
| ttccctgatt  | aaatgaaggc | caggcttgcc | tagttccagg  | gaaaaggcc   | aggggtgccta | 240  |
| gagcaagggtg | gatgggactt | tgttcgcaga | tgggccttga  | gagagcgacc  | cctcgtcctc  | 300  |
| aaatgcccgg  | aggaagggac | ggacttcttt | atctttacca  | tgggtattct  | gccttactgc  | 360  |
| tttggcctgt  | ggcgtttctt | cacttgcttt | tcctcatttt  | gcttggaatg  | tgctttgcct  | 420  |
| gttgcatacc  | cacctcgtct | gcccccttgc | acactccatg  | gctggcctaa  | aagcccagtc  | 480  |
| tgtgtccttg  | tgccctttag | acttccactg | taggattatg  | tttccacact  | ccctgtggac  | 540  |
| tggtgccactg | gagctctctg | cagacaggga | ctgtgtcagg  | ttgacctcca  | tccttcagac  | 600  |
| cagcccagtg  | cctggcaggt | agaggaaaga | gaagctgagg  | aggacttgc   | tgcacaagtg  | 660  |
| gatgccagga  | gctctgtgtc | tcccttcttg | aatctgctac  | cttatgatgg  | gagggacaca  | 720  |
| gggctgtgct  | ggatttgtgc | acgatgcttt | ggacagccca  | tgggagaggg  | ccaggaggaa  | 780  |
| ggaaaccag   | actgagtgga | tagcaggctg | gatgggggca  | ttgacagtgg  | gggaagcatt  | 840  |
| aaaggccatt  | tatagccttc | acaggctctg | gtaatgggct  | cttacacggg  | ttggtggcgg  | 900  |
| aaggacacag  | gtggacctgg | gctgggtggc | actcctgggc  | tgctcttggc  | cctggcatct  | 960  |
| gagacctgtt  | ggccaaaggc | tttgatgttg | ctctgggtatt | ttttcttttt  | tttgagaatg  | 1020 |
| gaactttttt  | ttttttaatg | aaatgctctt | ttgaatgggc  | aatacagtca  | cgttttctaaa | 1080 |
| atgaaaatat  | attaaaatat | attttaagaa | attttgcccc  | tcactcctga  | tctcatctct  | 1140 |
| gtcctccctc  | ctccctggta | accacctgta | gcagtttgaa  | tacccttcta  | gtttttctta  | 1200 |
| atgcaagtac  | agcaaacaca | aattgtgtat | tattattttc  | cccttttcag  | taaatgaaag  | 1260 |
| atagcattct  | gtgtgtactg | ttcttcatct | tgtgcttttt  | ttaacttatt  | gtagagattt  | 1320 |
| ttccatatca  | gtgcatggag | aatggttgtc | attctctttc  | agctgtgttg  | cactgtgaag  | 1380 |
| ttgtccctgt  | ttgaatactc | acccctgagg | aaaggcacct  | ggctgtttcc  | agcttgtttc  | 1440 |
| atgacatgcc  | ggcgacagtt | gtctcacgtg | cacatcgttt  | cccacattgc  | agtggctcctg | 1500 |
| cagggtggca  | tcccgagggc | acattgctga | gtcaaagagg  | aaacacagtt  | gtaattttga  | 1560 |
| cagattttgc  | ccagttgccc | tctacagggc | ttgttccatg  | ttgcactccc  | actggcggtg  | 1620 |
| ttgatgcctg  | attccccact | gactcgtcaa | cacaagggtg  | agtcaaatgc  | ttggagttct  | 1680 |
| gccagcctga  | ccaacatgga | gaaaccctac | tgaggataca  | aagttagcca  | ggcatgggtg  | 1740 |
| tgcatgcctg  | tagtcccagc | tgctcaggag | cctggcaaca  | agagcaaac   | tccagctcaa  | 1800 |
| aaaaaaaaaa  | aaaaa      |            |             |             |             | 1815 |

<210> 296  
 <211> 1346  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |           |            |            |    |
|------------|------------|------------|-----------|------------|------------|----|
| <400> 296  |            |            |           |            |            |    |
| cgctggggcc | gcgattccgc | acgtccctta | cccgttcac | tagtcccggc | attcttcgct | 60 |

|             |             |            |            |             |            |      |
|-------------|-------------|------------|------------|-------------|------------|------|
| gttttcctaa  | ctcgcccgc   | tgactagcgc | cctggaacag | ccatttgggt  | cgtggagtgc | 120  |
| gagcacggcc  | ggccaatcgc  | cgagtcagag | ggccaggagg | ggcgcgcca   | ttcgccgccc | 180  |
| ggcccctgct  | ccgtggctgg  | ttttctccgc | gggcgcctcg | ggcggaacct  | ggagataatg | 240  |
| ggcagcacct  | gggggagccc  | tggttggtg  | cggctcgctc | tttgccctgac | gggcttagtg | 300  |
| ctctcgctct  | acgcgctgca  | cgtgaaggcg | gcgcgcgccc | gggaccggga  | ttaccgcgcg | 360  |
| ctctgcgacg  | tgggcaccgc  | catagctgt  | tcgcgcgtct | tctcctccag  | gtggggcagg | 420  |
| ggtttcgggc  | tgggtggagca | tgtgctggga | caggacagca | tcctcaatca  | atccaacagc | 480  |
| atattcgggt  | gcattcttcta | cacactacag | ctattgttag | gttgccctgcg | gacacgctgg | 540  |
| gcctctgtcc  | tgatgctgct  | gagctccctg | gtgtctctcg | ctgggtctgt  | ctactggcc  | 600  |
| tggatcctgt  | tcttcgtgct  | ctatgatttc | tgcattgttt | gtatcaccac  | ctatgctatc | 660  |
| aacgtgagcc  | tgatgtggct  | cagtttcggg | aagggtccaa | aaccccaggg  | caaggctaag | 720  |
| aggcactgag  | ccctcaaccc  | aagccaggct | gacctcatct | gctttgcttt  | ggcatgtgag | 780  |
| ccttgccctaa | gggggcata   | ctgggtccct | agaaggccct | agatgtgggg  | cttctagatt | 840  |
| accccctcct  | cctgccatac  | ccacacatga | caatggacca | aatgtgccac  | acgctcgctc | 900  |
| ttttttacac  | ccagtgcctc  | tgactctgtc | cccatgggct | ggtctccaaa  | gctctttcca | 960  |
| ttgccagggg  | aggggaaggtt | ctgagcaata | aagtttctta | gatcaatcagc | caagtctga  | 1020 |
| accatgtgtc  | tgccatggac  | tgtggtgctg | ggcctccctc | ggtgttgcc   | tctctggagc | 1080 |
| tgggaagggt  | gagtcagagg  | gagagtggag | ggcctgctgg | gaagggtggt  | tatgggtagt | 1140 |
| ctcatctcca  | gtgtgtggag  | tcagcaaggc | ctggggcacc | attggccccc  | accccagga  | 1200 |
| aacaggctgg  | cagctcgctc  | ctgctgcca  | caggagccag | gcctactcta  | ctgggaaggc | 1260 |
| tgagcacaca  | cctggaagg   | caggctgcc  | ttctggatat | gtaaatgctt  | gctgggaaga | 1320 |
| tcttacttga  | gtttaacttt  | aacccc     |            |             |            | 1346 |

<210> 297

<211> 1262

<212> DNA

<213> Homo sapiens

<400> 297

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| cctaattggcc | cgasctgaat | acttgaagga  | gctcaagatg | agggaatctc  | gctgggaagc  | 60   |
| tgacaccctg  | gacaaagagg | gactgtcgga  | atctgttcgt | agctcttgca  | cccttcagtg  | 120  |
| accctagaag  | aatgattgga | cagatgtgag  | ccatctggag | cagaggggca  | ctaaccagg   | 180  |
| ctgacgccaa  | gaatgaagtg | gcccactgca  | gccctggcga | gcaggcttct  | tggatggaca  | 240  |
| gtgctgagac  | ccccatatcc | cagagtcccc  | agcctccctc | aggttactct  | gcaccccaca  | 300  |
| gatggtttga  | tggtctgtgt | gtatactgga  | ggggagggca | ggactctggg  | agaacagcac  | 360  |
| ttctttcatg  | agacctttgt | tactcggtgg  | ttactgggtc | ctggcctgt   | ccgttttggg  | 420  |
| gcatgcagcc  | ctctatcatt | tttggtccg   | agaagagggc | aaggggcccc  | cgcagggtarc | 480  |
| ttctgtgctt  | gccctcgccc | tgccagcagg  | cagctgtgcc | cctggcctgc  | ccttcccggg  | 540  |
| accccttatt  | ccaactcagc | tcctctttgc  | actggaatgg | ggcactccaa  | caccctcag   | 600  |
| ggaccaccct  | ccccacagta | tgcactcagc  | cccacagaac | ccaccagtct  | ttctgggaac  | 660  |
| tcacacctgc  | ccgccatctt | ggtacttttag | gttaatccct | caagcatgaa  | agctggatct  | 720  |
| tttgggggtt  | aagaagccca | agccttggtc  | ctgccctggc | ctaggagagca | ctcaggagg   | 780  |
| ttccttggtc  | ctcatctctc | ccacctccgt  | tcctctctgg | ccccacacta  | gccacagcgc  | 840  |
| gggccttgtg  | ctggagtttg | agcctgggac  | aggagagagg | aggcttggag  | acagtctgac  | 900  |
| ccagtgcctt  | ctaggccacc | cacttctagg  | cctgccctgc | cgcctgggag  | ccctgggcaa  | 960  |
| gctctttccc  | ctttctgggc | ctgggtctcc  | ccatctcttc | aatggggctg  | ataccttcac  | 1020 |
| agcccacagc  | atgggcactt | atgaggacaa  | agtgaattta | acctggaaaa  | gaatgtattt  | 1080 |
| gagagtttct  | tttaaataat | cagcgggtgt  | tggtgatttg | tagcccttct  | gcccttaaat  | 1140 |
| gcttccttgg  | gcaagagctg | tctgtcctcc  | ctgcaggagg | ctgagtgtga  | agagtatcat  | 1200 |
| tcattgtttc  | tctattaaat | tattttctgc  | taaaaaaaa  | aaaaaaaaat  | ttctgcggtc  | 1260 |
| cg          |            |             |            |             |             | 1262 |

<210> 298

<211> 989

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (955)..(955)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (979)..(979)  
 <223> n equals a,t,g, or c

<400> 298  
 acgcgtccgc tctggatccc tctgtccctg gtgctgggtg aaatgaccat cacctcgttt 60  
 tatgccgtgt gcttttacct gctgatgctg gtcattgggtg aaggctttgg ggggaaggag 120  
 gcagtgtctga ggacgtctgag ggacacccg atgatgggtcc acacaggccc ctgctgctgc 180  
 tctgtccctc gctgtccacg gctgtgctc accaggaaga agcttcagct gctgatgttg 240  
 ggccctttcc aatacgctt cttgaagata acgctgacct tgggtggcct gtttctcatc 300  
 cccgacggca tctatgacct agcagacatt tctgagggga gcacagctct atggatcac 360  
 actttcctcg gcgtgtccac actgctggct ctctggacct tgggcatcat ttcccgtcaa 420  
 gccaggctac acctgggtga gcagaacatg ggagccaaat ttgctctgtt ccaggttctc 480  
 ctcatcctga ctgccctaca gccctccatc ttctcagctc tggccaacgg tgggcagatt 540  
 gcttggtcgc ctccctattc dctaataacc aggtctcaag tgatgaattg ccacctcctc 600  
 atactggaga cttttctaata gactgtgctg acacgaatgt actaccgaag gaaagaccac 660  
 aaggttgggt atgaaacttt ctcttctcca gacctggact tgaactcaaa gcctaagggtg 720  
 gatggcttgg acaatgaaag gatgctgtac tcattagaat acaagattcc ttactgtcc 780  
 ctcaaccttg accaaatggg aagcattccc ccttgtcaac acaagctggc agatacatat 840  
 gactctacag atgaagggtga acaatgttag gataaaattg ctttggatct tgccctggaag 900  
 ttgttttaag ttttgtaata aacaagatga tgtctgaaaa aaaaaaaaaa aaanaaaaaa 960  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 989

<210> 299  
 <211> 632  
 <212> DNA  
 <213> Homo sapiens

<400> 299  
 aattcccggt tgcacccacg cgtccgcgac ggtctcatgt accagaaatt ccggaaccaa 60  
 ttctctcct tttccatgta ccagagcttc gtgcagtttc tccagtacta cccagagc 120  
 ggctgcctct accgctgctg ggcgctgggc gagcggcaca ccatggacct cactgtggag 180  
 ggcttccagt cctggatgtg gcggggcctc accttccctg tgccttttct tttctttgga 240  
 cacttctggc agctttttta cgcgctgacg ttgttcaacc tggcccagga ccctcagtgc 300  
 aaggagtggc aggtgcttat gtgcggcctt cccttccctc tccttttctc cggcaatttc 360  
 ttaccacccc tgagggttgt gcaccacaag ttccacagtc agcggcacgg gagcaagaag 420  
 gattgaggct gggccttccc ctgccggccc agaggggctt ctgtcctgtg tgttggtggga 480  
 ggggatggga ggcgcccctc gactgtgctg gtatcagggg gtctctcta ttctcccttg 540  
 ggttttatgg gcgctgtggg ccctgaagga agacctgggc ccagtgcctt caataaagag 600  
 aggcccagag gtggaaaaaa aaaaaaaaaa aa 632

<210> 300  
 <211> 2572  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2527)..(2527)  
 <223> n equals a,t,g, or c

<400> 300

|             |             |             |             |             |             |      |
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| aattcggcac  | gagtctggac  | cttcttagmt  | tgcttgatat  | caggttgttt  | ttgtagccat  | 60   |
| tttgcttcac  | agtcacctgg  | aatgceggga  | gcccctgctc  | atcccgatcc  | tctccttgta  | 120  |
| catgggcgca  | cttgtgcgct  | gcaccaccct  | gtgcctgggc  | actacaaga   | acattcacga  | 180  |
| catcatccct  | gacagaagtg  | gcccggagct  | ggggggagat  | gcaacaataa  | gaaagatgct  | 240  |
| gagcttcttg  | tggcctttgg  | ctctaattct  | ggccacacag  | agaatcagtc  | ggcctattgt  | 300  |
| caacctcttt  | gtttcccggg  | acottggtgg  | cagttctgca  | gccacagagg  | cagtggcgat  | 360  |
| tttgacagcc  | acataccctg  | tggtcacatg  | ccatacggct  | ggttgacgga  | aatccgtgct  | 420  |
| gtgtatcctg  | ctttcgacaa  | gaataacccc  | agcaacaaac  | tgggtgagcac | gagcaacaca  | 480  |
| gtcacggcag  | cccacatcaa  | gaagttcacc  | ttcgtctgca  | tggctctgtc  | actcacgctc  | 540  |
| tgtttcgtga  | tgttttggac  | acccaacgtg  | tctgagaaa   | tcttgataga  | catcatcgga  | 600  |
| gtggactttg  | cctttgcaga  | actctgtggt  | gttcctttgc  | ggatcttctc  | cttcttccca  | 660  |
| gttccagtca  | cagtgaaggg  | gcattctcacc | gggtggctga  | tgacactgaa  | gaaaaccttc  | 720  |
| gtccttgccc  | ccagctctgt  | gtgcgggctc  | atcgtcctca  | tcgccagcct  | cgtggctcta  | 780  |
| ccctacctgg  | gggtgcacgg  | tgcgaccctg  | ggcgtgggct  | ccctcctggc  | gggctttgtg  | 840  |
| ggagaatcca  | ccatggctgc  | catcgctgcg  | tgctatgtct  | accggaagca  | gaaaaagaag  | 900  |
| atggagaatg  | agtcggccac  | ggagggggaa  | gactctgcc   | tgacagacat  | gcctccgaca  | 960  |
| gaggagggtga | cagacatcgt  | ggaaatgaga  | gaggagaatg  | aataaggcac  | gggacgccat  | 1020 |
| gggcactgca  | gggacagtca  | gtcaggatga  | cacttcggca  | tcattctctc  | cctctcccat  | 1080 |
| cgtattttgt  | tccttttttt  | ttgttttgtt  | ttggtaatga  | aagaggcctt  | gattttaaagg | 1140 |
| tttcgtgtca  | attctcttagc | atactgggta  | tgctcacact  | gacgggggga  | cctagtgaat  | 1200 |
| ggtctttact  | gttgctatgt  | aaaaacaaac  | gaaacaactg  | acttcatacc  | cctgcctcac  | 1260 |
| gaaaacccaa  | aagacacagc  | tgcttcacgg  | ttgacgttgt  | gtcctcctcc  | cctggacaat  | 1320 |
| ctcctcttgg  | aaccaaagga  | ctgcagctgt  | gccatcgctc  | ctcggtcacc  | ctgcacagca  | 1380 |
| ggccacagac  | tctcctgtcc  | cccttcacgc  | ctcttaagaa  | tcaacagggt  | aaaactcggc  | 1440 |
| ttcctttgat  | ttgcttccca  | gtcacatggc  | cgtacaaaga  | gatggagccc  | cgtgggcctc  | 1500 |
| ttaaatttcc  | cttccgccac  | ggagttcgaa  | accatctact  | ccacacatgc  | aggaggcggg  | 1560 |
| tggcacgctg  | cagcccgag   | tcctccgttc  | cactgaggaa  | cggagacctg  | tgaccaagc   | 1620 |
| aggctgacag  | atggacagaa  | tctcccgtag  | aaaggtttgg  | tttgaaatgc  | cccgggggca  | 1680 |
| gcaaaactgac | atggttgaat  | gatagcattt  | cactctgcgt  | tctcctagat  | ctgagcaagc  | 1740 |
| tgtcagttct  | cacccccacc  | gtgtatatac  | atgagctaac  | ttttttaaat  | tgtcacaaaa  | 1800 |
| gcgcattctcc | agattccaga  | ccctgcgcga  | tgacttttcc  | tgaaggcttg  | cttttccctc  | 1860 |
| gcctttcctg  | aaggtcgcat  | tagagcgagt  | cacatggagc  | atcctaactt  | tgcattttag  | 1920 |
| tttttacagt  | gaactgaagc  | tttaagtctc  | atccagcatt  | ctaattgccag | gttgctgtag  | 1980 |
| ggtaactttt  | gaagtagata  | tattacctgg  | ttctgctatc  | cttagtcataa | actctgcggt  | 2040 |
| acaggtaatt  | gagaatgtac  | tacggtactt  | ccctcccaca  | ccatacgata  | aagcaagaca  | 2100 |
| ttttataacg  | ataccagagt  | cactatgtgg  | tcctccctga  | aataacgcat  | tcgaaatcca  | 2160 |
| tgcagtgcag  | tatatTTTTc  | taagttttgg  | aaagcagggt  | ttttccttta  | aaaaaattat  | 2220 |
| agacacgggt  | cactaaattg  | atttagtcag  | aattcctaga  | ctgaaagaac  | ctaaacaaaa  | 2280 |
| aaatatTTta  | aagatatata  | tatatgctgt  | atatgttatg  | taattttatt  | taggctataa  | 2340 |
| tacatttcct  | atTTtcgcat  | tttcaataaa  | atgtctctaa  | tacaatacgg  | tgattgcttg  | 2400 |
| tgtgctcaac  | atacctgcag  | ttgaaacgta  | ttgtatcaat  | gaacatgta   | ccttattggc  | 2460 |
| agcagtttta  | taaagtccgt  | catttgcatt  | tgaatgtaag  | gctcagtaaa  | tgacagaact  | 2520 |
| atTTTTncaT  | tatgggtaac  | tgggggaata  | aatgggggtca | ctggggagtag | gg          | 2572 |

<210> 301  
 <211> 1488  
 <212> DNA  
 <213> Homo sapiens

<400> 301

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cgccaagtTtt | ccggaggggag | agggtagaaa | ctggaggggg | tggacctgtc  | actcacggga | 60  |
| ctgagggtcc  | ttttctccc   | ctcccaggag | gaacgagaat | gaatatgact  | caagcccggg | 120 |
| ttctgggtggc | tgcagtgggtg | gggttggtgg | ctgtcctgct | ctacgcctcc  | atccacaaga | 180 |
| ttgaggagg   | ccatctggct  | gtgtactaca | ggggaggagc | tttataact   | agccccagt  | 240 |
| gaccaggcta  | tcatatcatg  | ttgcctttca | ttactacgtt | cagatctgtg  | cagacaacac | 300 |
| tacaaactga  | tgaagttaaa  | aatgtgcctt | gtggaacaag | tgggtggggtc | atgatctata | 360 |



|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| ttgaccgaat | agaagtgggt | aatatgttgg | ctccttatgc  | agtgtttgat  | atcgtgagga | 420  |
| actatactgc | agattatgac | aagaccttaa | tcttcaataa  | aatccaccat  | gagctgaacc | 480  |
| agttctgcag | tgcccacaca | cttcaggaag | tttacattga  | attgtttgat  | caaatagatg | 540  |
| aaaacctgaa | gcaagctctg | cagaaagact | taaacctcat  | ggccccaggt  | ctcactatac | 600  |
| aggctgtgcg | tgttacaaaa | cccaaaatcc | cagaagcc    | aagaagaaat  | tttgagttaa | 660  |
| tggaggctga | gaagacaaaa | ctccttatag | ctgcacagaa  | acaaaagggt  | gtggaaaaag | 720  |
| aagctgagac | agagaggaaa | aaggcagtta | tagaagcaga  | gaagattgca  | caagtggcaa | 780  |
| aaattcgggt | tcagcagaaa | gtgatggaaa | aagaaactga  | aaagcgcat   | tctgaaatcg | 840  |
| aagatgctgc | attcctggcc | cgagagaaa  | cgaaagcaga  | tgctgaatat  | tatgctgcac | 900  |
| acaaatatgc | cacctcaaac | aagcacaagt | tgaccccgga  | atatctggag  | ctcaaaaagt | 960  |
| accaggccat | tgcttctaac | agtaagatct | atattggcag  | caacatccct  | aacatgttcg | 1020 |
| tggactcctc | atgtgctttg | aaatattcag | atattaggac  | tggaaagagaa | agctcactcc | 1080 |
| cctctaagga | ggctcttgaa | ccctctggag | agaacgtcat  | ccaaaacaaa  | gagagcacag | 1140 |
| gttgatgcaa | gaggtggaaa | tgttctccat | atcaagatgt  | ggcccaaggg  | gttaagtggg | 1200 |
| aacaatcatt | atacggactc | ttcagattta | cagagaactt  | acacttcac   | tgttccacct | 1260 |
| ctcctgcgat | agtcctgggt | gctccactga | ttggaggata  | gagccagctg  | tctgacacac | 1320 |
| aaatggtctt | ttcagccaca | gtcttatcaa | gtatcctata  | tgtattcctt  | tctaaactgc | 1380 |
| tactcatgaa | tgaggaaa   | ctgatgctaa | gatactgcct  | gcactggaat  | gttaaact   | 1440 |
| aaatatataa | caagctgtgt | tttctaatgc | tgaaaaaaaaa | aaaaaaaa    |            | 1488 |

<210> 302  
 <211> 609  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 302  |            |            |            |            |             |     |
| ccacgcgtcc | gcggacccca | gacatgagga | ggctcctcct | ggtcaccagc | ctgggtgggtg | 60  |
| tgctgctgtg | ggaggcaggt | gcagtcccag | cacccaaggt | ccctatcaag | atgcaagtca  | 120 |
| aacactggcc | ctcagagcag | gacccagaga | aggcctgggg | cgcccggtg  | gtggagcctc  | 180 |
| cggagaagga | cgaccagctg | gtggtgctgt | tccctgtcca | gaagccgaaa | ctcttgacca  | 240 |
| ccgaggagaa | gccacgaggt | cagggcaggg | gccccatcct | tccaggcacc | aaggcctgga  | 300 |
| tggagaccga | ggacaccctg | ggccgtgtcc | tgagtcccga | gcccagccat | gacagcctgt  | 360 |
| accaccctcc | gcctgaggag | gaccagggcg | aggagaggcc | ccggttggtg | gtgatgccaa  | 420 |
| atcacagggt | gctcctggga | ccggaggaag | accaagacca | catctaccac | ccccagtagg  | 480 |
| gtccacgggg | ccatcactgc | ccccgcctcg | tcccaaggcc | caggctgttg | ggactggga   | 540 |
| cctccctacc | ctgccccagc | tagacaaata | aaccccagca | ggccgggaaa | aaaaaaaaaa  | 600 |
| aaaaaaaaaa |            |            |            |            |             | 609 |

<210> 303  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 303  |             |            |            |            |            |     |
| ggtcgaccca | cgcgctccgag | catttgtgtg | tataatttta | gttattgaat | taaaatcttt | 60  |
| tgggacccca | acaggatgag  | atcattggcc | agctggcttc | ctcccacctg | cacctggact | 120 |
| gaaattcccc | gtggcattag  | aggtgtttcg | taaggtgctc | cctgctgtct | gtcctacaga | 180 |
| ttgcagtggc | tctgctggaa  | aagaacggaa | ttctatgcaa | gttgcggtg  | tcatgaagt  | 240 |
| ctctgcacag | tgggtgtgtt  | tctttgtcgt | cttttctcca | ctctgctctt | ctgtgaaatg | 300 |
| tgccagcagt | ggacagaaca  | ggggcagagg | tgatcagtga | ccattgcaca | gaatatcagt | 360 |
| aagtgtttga | aggtatatag  | tcttggccaa | caaattgtaa | gcaaaatacc | aggaacttcc | 420 |
| taatctagta | ggaaattttg  | tatgcttttg | acaaacatct | gacccactct | acactgaaag | 480 |
| tccttagaag | gagaattgct  | tgaacccgga | aggtggcggt | tgcatgtgag | caagatggcg | 540 |
| ctactgcact | ccagcctggg  | caataggaat | gaaactccgt | caccaaaaaa | aaaaaaaaaa | 600 |
| aagggcggcc | gc          |            |            |            |            | 612 |

<210> 304

<211> 613  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (25)..(25)  
 <223> n equals a,t,g, or c

<400> 304  
 gaattcggca cgagcgggac gcggnatgaag atagcctgcg gagtgtccgg gcggaacacg 60  
 gttgcagcac tcccagtaga caggagctc cgggaggcag gcccgcccc acgtcctctg 120  
 cgcaccacc tgagttggat cctctgtgcg ccacccctga gttggatcca gggctagctg 180  
 ctgttgacct ccccaactccc acgctgccct cctgcctgca gccatgacgc ccctgctcac 240  
 cctgatcctg gtggctcctca tgggcttacc tctggcccag gccttggact gcacgtgtg 300  
 tgctacaac ggagacaact gcttcaaccc catgcgctgc ccggctatgg ttgcctactg 360  
 catgaccacg cgcacctact acacccccac caggatgaag gtcagtaagt cctgcgtgcc 420  
 ccgctgcttc gagactgtgt atgatggcta ctccaagcac gcgtccacca cctcctgctg 480  
 ccagtacgac ctctgcaacg gcaccggcct tgccacccc gccaccctgg ccctggcccc 540  
 catcctcctg gccaccctct ggggtctcct ctaaagcccc cgaggcagac ccactcaaga 600  
 acaaagctct cga 613

<210> 305  
 <211> 1015  
 <212> DNA  
 <213> Homo sapiens

<400> 305  
 ggacagagca aaaggggctt ctattgtatt ggtcatattt tatttttggtt taaaaaat 60  
 tagagtaa atgtggcaaaat gttaatgctt gttaaactct agtggagagt acattgggtg 120  
 taagtgtgct gctatgcagg gtgagtgaat tactcaataa ctaaataatt gtgacataat 180  
 atatttattt atgcttccct gttatgatct acacataaaa ttactggagc attattgctt 240  
 aacttcttgt aaaaaagttc tgcaattgta gtgttattaa gaaagtaata ttgatttgta 300  
 tagtgacaga ggattttttc agtgctactt tgccagcaga gatcttcatg gtgggcattg 360  
 cccctgcccc tgtctcactt ggccctgggc ttgcccact aggtacctg cccacctggc 420  
 caggcaggct gtgcttggtt tgagctctgg ccagatcct gcacttgctc tgcggctgag 480  
 ccaggcatgc catgacctac ttccaccttg ggagccggcg tctggatgag gggaatgctg 540  
 tgacacttga acagaggtgg gcatgtgacc ccaaagcccc aaaggggtg ttacagcatg 600  
 ctaacagttc tttcagttct acatccacag cccaacaaat ggaggtgtgt ggtgccaga 660  
 ggtcccttct cccattgttt ggcaagcagg aggggtgtgc tacagggtta cagctttgtt 720  
 tgcacttgcc gtttggtggg tcttgagttc ttttccatg tccaagaata aggttgtgct 780  
 gacagctagc ggttgagtga ggcaagagt ttactcagtaacaaaacag ctctcagcag 840  
 agaaggaagc ctgagttgga cagcaccctt acctgaagt gggtagtctt cccaccacct 900  
 aaaagtgggt agcccaaagt gtggctgagc ctggggcttt tatatgctca gaatgggagt 960  
 gtatgtgcta attggtttgt gagtatgcaa aaaaagctaa aaaaaaaaaa aaaaa 1015

<210> 306  
 <211> 1022  
 <212> DNA  
 <213> Homo sapiens

<400> 306  
 ttcccgggtc gacccacgcg tccgcccacg cgtccggctt ggggccagca ccctgtctca 60  
 aagatggcaa aatgaggcta gttctggatg agctagctgg tgtgggttcc aaccatagga 120  
 acacactgat gctcaaatcc taaggtgcca agctctaggccctggaggct ggtagaacag 180  
 gatctatgcc tggaaacctg gcagggattc ctgtcaagga cttgtgttta agcctgcttc 240  
 agggcttcag gctgcttctg ctctgtgtct gccaggctg gctgagcggg tggatgggtg 300

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| gacagaaggg | ctcaccaagg  | attgtggaca | tagggtaggc | cctggtacca | cgggttttcag | 360  |
| gctgttatca | cttcccttgt  | aggaacatag | ccagaagcag | atgagccagg | gtagagggct  | 420  |
| ggccctcct  | ctcatcttcc  | cttcagtctt | aaattgtctc | cagcgatggg | aagaggccag  | 480  |
| ggactgtaac | ccttgtgctg  | tgtattctct | gagcctctgc | tcactctcag | ggccaagcag  | 540  |
| ctcccaagcc | ggggccctct  | cttggccaaa | atctgaggag | cagtctaggt | tacaggcttt  | 600  |
| ttggtaggta | ggttctggct  | gcctgttaat | gcagttaggc | cccctgatta | ggtacagtga  | 660  |
| gaaacaagct | agaacaaccc  | tggcccagaa | gactgtgcac | tccagcaaga | tccagggatg  | 720  |
| atagccttgc | agggccactg  | ggagtttgtg | cccaagcttc | tccctcttct | ctccccaggg  | 780  |
| ggcactggga | ctggctccctg | ccctcatcct | tagcctgggc | cttccccaga | ggtattaaag  | 840  |
| agaagtatga | ttcctctgtc  | ttcagttctt | ttcaggggca | tcctgcccac | agtacccagt  | 900  |
| tcccaagggg | ccccagtc    | cgtggtgaag | cctagcactc | atgcagctct | tagggaacca  | 960  |
| aaaaccagca | ctgaaataaa  | gctgaatga  | tgactgaaaa | aaaaaaaaaa | aaagggcggc  | 1020 |
| cg         |             |            |            |            |             | 1022 |

<210> 307  
 <211> 1766  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (36)..(36)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1750)..(1750)  
 <223> n equals a,t,g, or c

|             |             |
|-------------|-------------|
| <400> 307   |             |
| acgggggctt  | taangggaaa  |
| tgtttatgga  | gggtccagta  |
| cccgaattcc  | ttcttggacc  |
| tcagttgcct  | gggtactcgg  |
| accatcttat  | ggcaagccac  |
| tgtggaccct  | tttgccagac  |
| gtattttcagt | aacgagcgga  |
| gtttctccaga | cccacgaccg  |
| caggtgctac  | atcaadtacg  |
| gaccaaaaag  | aaatctggct  |
| gtcagctggg  | ttacgcgcct  |
| ctgcctggct  | cctgscacca  |
| cctcagtatt  | atgtagggag  |
| ccttcttggg  | agtttgcagg  |
| tgtggagaca  | aaaggaggga  |
| atgtgaagac  | acgcgctaga  |
| gactggtggc  | attgttcctt  |
| cacagatgtg  | ttggtttgtg  |
| tttgatttga  | tttttctaaa  |
| ataacgtggc  | aagtatctga  |
| acttgtttga  | tacctttttc  |
| gaacacattt  | tgatagggct  |
| cccttcccgg  | aatttncggg  |
| agtgcacaaa  | accattgcct  |
| gagacgaaga  | ttcaccattg  |
| cattctgccc  | acaaaaatga  |
| catgcctgct  | gatgggaact  |
| tggcaggaaa  | ggggaggatg  |
| cctgcctctc  | ccccataccg  |
| ggtccggggg  | gctggggaag  |
| cagcgccacg  | attccattcc  |
| gagtcctcgt  | ccacagaacc  |
| actcactgag  | aggaggaagg  |
| acagcccttt  | ctcgtttcag  |
| tttgaaaagt  | tatctactgc  |
| gaggatctta  | ggtgctggct  |
| cttgcttccc  | cagagataga  |
| acgttatggg  | cattgtgagg  |
| caaattgggt  | gctgttttca  |
| aaagccagtg  | agaaaacatt  |
| gagcagctt   | tgacttttga  |
| tttaagtgtg  | ggcctgttac  |
| cagttggtac  | agaaatacat  |
| atgggttatt  | gtgtgggggtg |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| gtgttggttat | atattattgt | ctttaaggga | aaagaagcta | taagattcgc | tgacagccaa | 1380 |
| agtatcattt  | agaaaagtga | agcaacaaga | tttaggttga | tgaaagatac | atgagtttgc | 1440 |
| attttgacct  | gttcagtgtc | tgtcttccag | cacggtgtgt | acacttcttc | aaaattgtac | 1500 |
| acagtttgct  | aattagaaat | atcttggaat | gcctcagg   | cactaatttt | caactagcat | 1560 |
| caggatattt  | gaaaacgtgt | gtctggatat | taactcttgt | ttaaactgaa | tgtatgatat | 1620 |
| tttgtagaa   | tggaaaagta | ctatcttggt | aatttaagta | ttttaaatat | agttgtatat | 1680 |
| ttttcttaaa  | aaaaaaaaaa | aaaaaaaaaa | aaagggcggc | cgctctagag | gatcccgcca | 1740 |
| ggggccccc   | attacgcgtg | agcggt     |            |            |            | 1766 |

<210> 308  
 <211> 815  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (406)..(406)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (794)..(794)  
 <223> n equals a,t,g, or c

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 308   |            |             |            |            |            |     |
| ggcagagcgg  | gcacgagcgg | cacgagatgg  | aatgttcatt | ttatggcagt | tgttttaagt | 60  |
| tktaaawtac  | acagaggaaa | mtattgtgga  | aggacctctt | tgttgctttc | ccttctaagt | 120 |
| tgtcttcttc  | ttcttcttct | tcttcttctt  | cttcttcttt | ggctcttaag | tgaaataaag | 180 |
| actctaaaac  | taatttgtat | attatcagcc  | agagatgcgg | atggcagtcg | agccaaatcg | 240 |
| catggctttc  | agatcaggta | ttctgcacat  | tcattccaag | gtcatagatt | tttaaaagga | 300 |
| cctggatttg  | aagagatggc | aaatgrtgag  | ccatcagaaa | acttaatttg | gaaaacatgt | 360 |
| atgtagccag  | tgtggatatt | gtggctctc   | tcaagacaca | ttgacnactg | tagacytcat | 420 |
| tcagtccagt  | gtgagtattt | tggagtaggt  | tggatgtaga | ttttgttttt | atcgttgatt | 480 |
| tgtaccgaca  | gaaatagaca | ttcatcatg   | taaaattcct | gttattcttg | aaaaacctat | 540 |
| tgttttgatc  | cttcttggtt | tcctgacttg  | gaagtatcct | ttcaaaaaaa | ctcttagat  | 600 |
| atctaggtct  | aaaaagcact | tcattgagatg | ctaaagctga | cccactggtt | gaaaatgttg | 660 |
| accctatcct  | gttattttaa | tgtgaacatt  | tattgtacat | tcagttaggt | atagtgttaa | 720 |
| tagtcttggtg | ctatgcagca | ggtgtaaaaa  | ttaataaata | tattttttta | taaaaaaaa  | 780 |
| aaaaaaaaaa  | attnctgcgg | tccgcaaggg  | aattc      |            |            | 815 |

<210> 309  
 <211> 633  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 309   |            |            |            |             |             |     |
| ggcagagtgt  | ctctcaatgg | cttcttttct | gaagggcatc | acagccactg  | tacttatcaa  | 60  |
| tgcctgtgta  | gccaacacag | tagctcctct | acattacaag | gatatgatta  | ttcctaact   | 120 |
| tgtcgatgat  | ctaggaaaag | taaaaatcac | taagtcagga | tttctcactt  | ttatggacac  | 180 |
| ttggagcaat  | ccactggagg | aacacaatca | ccaaagtctt | gttcatttgg  | aaaaggcgca  | 240 |
| ggtgcccttc  | ttgtttattg | ttggcatgga | tgatcaaagc | tggaagagtg  | aattctatgc  | 300 |
| tcagatagcc  | tctgaaaggc | tacaagctca | tgggaaagaa | agaccccgaga | taatctgtta  | 360 |
| cccagaaaact | ggtcactgta | ttgaccaccc | ttatttttct | ccttctagag  | cttctgtgca  | 420 |
| cgctgttttg  | ggtgaggcaa | tattctatgg | aggtgagcca | aaggctcact  | caaaggcaca  | 480 |
| ggtagatgcc  | tggcagcaaa | ttcaaacctt | cttcataaaa | catctcaatg  | gttaaaaaatc | 540 |
| tgtcaagcac  | agcaaaatat | aacattgtag | ccacagacca | gataccatta  | ataaaaaatcc | 600 |
| tattcataaa  | aaaaaaaaaa | aaaaaaactc | gta        |             |             | 633 |

<210> 310  
 <211> 989  
 <212> DNA  
 <213> Homo sapiens

<400> 310  
 ggcacgagca tgccagtgcc tactctgtgc ctgctgtggg ccctggcaat ggtgacccgg 60  
 cctgcctcag cggcccccat gggcggccca gaactggcac agcatgagga gctgaccctg 120  
 ctcttccacg ggaccctgca gctgggccag gccctcaacg gtgtgtacag gaccacggag 180  
 ggacggctga caaaggccag gaacagcctg ggtctctatg gccgcacaatagaactcctg 240  
 gggcaggagg tcagccgggg ccgggatgca gcccaggaac ttcgggcaag cctgttggag 300  
 actcagatgg aggaggatat tctgcagctg caggcagagg ccacagctga ggtgctgggg 360  
 gaggtggccc aggcacagaa ggtgctacgg gacagcgtgc agcggctaga agtccagctg 420  
 aggagcgcct ggctgggccc tgcctaccga gaattttgagg tcttaaaggc tcacgctgac 480  
 aagcagagcc acatcctatg ggccctcaca ggccacgtgc agcggcagag gcgggagatg 540  
 gtggcacagc agcatcggct gcgacagatc caggagaggt gagcctggca ggggtttggc 600  
 aggcagggca gttggatggg gggcgcacag ggcagctgga aaggggccc ctcacctggg 660  
 ctgagccaca tctccctccc cagactccac acagcggcgc tcccagcctg aatctgcctg 720  
 gatggaactg aggaccaatc atgctgcaag gaacacttcc acgccccgtg agggccctgt 780  
 gcagggagga gctgcctgtt cactgggatc agccagggcg ccggggcccca cttctgagca 840  
 cagagcagag acagacgcag gcggggacaa aggcagagga tgtagcccca ttggggaggg 900  
 gtggaggaag gacatgtacc ctttcatgcc tacacacccc tcattaaagc agagtcgtgg 960  
 catctcaaaa aaaaaaaaaa aaaaaaaaaa 989

<210> 311  
 <211> 1524  
 <212> DNA  
 <213> Homo sapiens

<400> 311  
 ggcacgagaa ggagctgggg gatgtgcagg gccacggcag ggtggtcacc agcagagccg 60  
 cccctccacc tgtggatgaa gagccagagt cctctgaggt cgatgctgct ggtcgggtggc 120  
 ctggtgtctg tgttagcaga acatctccaa caccgccaga gtcggcaacc accgttaagt 180  
 cacttatcaa gtcatttgac ttgggacgcc caggtggagc tggacagaat atttctgtcc 240  
 ataagacccc cagaagtccc ctaagtggga taccagttag gactgctcca gcagctgctg 300  
 tctctccaat gcagaggcat tcgacttaca gcagtgtgcg gccagccagc agaggggtga 360  
 ctcaacgctt ggaccttcct gaccttcccc tctcagat# tctaaaggga aggactgaga 420  
 ccctgaagcc agacccccac ctccgcaaga gtccctcact agagtccact agcagacccc 480  
 cgtctctggg ctttggggac acaagactgc tgagtgttc caccgggca tggaaaccac 540  
 aaagcaaac cagtgtggaa agaaaagacc ctctggcggc cttggcccgg gaatacgggt 600  
 gttccaagcg caatgctcta ctgaaatggt gccagaagaa gacacaaggt tatgcgaaga 660  
 ggaatctctt gttggcattt gaagcggctg aaagtgtagg catcaaacc agcctggaac 720  
 tcagcgagat gctgtacaca gaccggcccg actggcagag tgtgatgcag tacgtggccc 780  
 aaatctacaa gtacttttag acgtaaccct ggaggccctg gggcagccac cattgccacc 840  
 tactgcagct tttcctggaa gcgcctgatt actgtccact gaccctgctc tgcccaccac 900  
 ccagctgcct agacttcaaa gacaggctca atccaagtgg accaacaccc aaataagaaa 960  
 cagagtgggt cccacgatgt acctgtctga aatgcaaatg cagctggact gtaaattggg 1020  
 gactctttga tctcttgtgg gatgcttcta aagagggcag cctccctcct tccagaccaa 1080  
 gacccacac ccaggttgt tttgctgatt atattgggtg gctgaacgaa cacattatct 1140  
 gcagaaattc agacaaagaa catctccaaa tcagtctttt ggttgctgtt gtaaaaaata 1200  
 tcccggttt gcctttatga aacctttgc cttggctggg tgtggtagct cgtggctgta 1260  
 atcccagcac ttttaggaagc caaggcagta ggatcgttt agcccaggag ttcgagggtg 1320  
 cagtgaagta tgagcatacc actgcactcc agcctgtgtg aaagagccag accctgtctc 1380  
 aaaaaaatga taaaacccaa aactttgccc ttgtgaaccc tcccttcccc cctcccccc 1440  
 ccaaaaaaaa aacaacaaaa caaaaaaat aaacatttgt tccagggcaa cctggaaaaa 1500  
 aaaaaaaaaa aaaaaaaaaa aaaa 1524

<210> 312  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens

```

<400> 312
gctaaaattc aacaaggtga gtggccgga gtggaaggct gttgctcatt ctgatttctg      60
ttggctctat ttcattgctaa mccagttttt tttgtttggt tgtttccact ttataacata      120
tggatttcta tgccacacta cccgtaactt tgaaaaataa ctttaggctg cagttttcag      180
caaacaggac agtccttagc tgccacatag ctcaacataa agtgcacaaa aaacttcag      240
gtgggacagt gaatcataaa ttcccaaact gacgtgtgtc tacagaacag atgagaactg      300
ttactcagtg tgtatcttag gagcttttct gcagtttcct cacactccgt cacattttaa      360
atgtggacac ttgtttattt cattagggag gaggcgaggg actaatgtcc accctgcca      420
gagtatttcg aatatcctta gtaagagga ggaagcaag aattctgttc taaaggccac      480
caggctaagc actagaatcg cattctcttc ctgtttgtat gtttatgtca gcagttgcca      540
cagatgtgtt aatattgttt tcctggtaga gaattaagggt gttcgttcac ctcaaaacaa      600
atcccgtaac ctgcacacaa aactccagct tcctaattgca aagagaagag aaatttgatt      660
ataagctgct tgatattctt tttattccca gcccctcaaa ataccagcct ggaagtctgg      720
acattactaa aatttaccag tctcaaaaaa aaaaaaaaaa aaaactcgag      770

```

<210> 313  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (87)..(87)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (89)..(89)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (525)..(525)  
 <223> n equals a,t,g, or c

```

<400> 313
cnagggataa ccccaaagnt gggaaataaa ccctcaatta aagggggaac caaaaagctg      60
ggaagtcccc ccccgcggtg gcggccngnt ctaggaacta gtggaatccc ccggggctgc      120
aggggaattcg gcacggagtg ggaatgttgt ttgtatgata ctatttccac aawatgcatt      180
gagacttggt ktgtggccta ggacatgggc aattcttityt aaatattccg tgaatttctt      240
tagtgcatat tctccgatgg gggctgtggg gacagagttc taaatatgcc cattagatta      300

```

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| aatctcttca | ttctgttgct  | cacatcttct | atataccttat | taactgtca  | atctcttcaa | 360 |
| gagaggtggt | attaaaaatct | ctcactgtat | gtgtcacttt  | gcccttaaaa | ttctgatgat | 420 |
| ttgctttata | aatgggttata | accattttcc | aggaagaaca  | ttaaagaact | ttccattggc | 480 |
| attatccagt | ttccctcaaa  | atactggttt | tttttatttt  | ggctnctaag | cagctatgaa | 540 |
| tccagtttct | cagaagccct  | tgtctcaagg | catttgtttc  | cagattacct | tgtagcatc  | 600 |
| cacactatgg | gctatttttag | aaaaacaaaa | aaagtatcaa  | aatcatatag | ctatgatttt | 660 |
| cctgtgcttg | aaggagcctt  | aaagctcatc | tagtccagcc  | agtatttggt | catccaaatt | 720 |
| ctgccaagaa | atctctattg  | tcaagatatt | ctttaccac   | tttgggacat | tctcattatt | 780 |
| agaaacaaat | cctaagaaga  | aattctgcca | takacaacc   | atccgttctt | taaaaaaaaa | 840 |
| aaa        |             |            |             |            |            | 843 |

<210> 314  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (513)..(513)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (559)..(559)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (587)..(587)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (602)..(602)  
 <223> n equals a,t,g, or c

|              |              |             |             |             |             |     |
|--------------|--------------|-------------|-------------|-------------|-------------|-----|
| <400> 314    |              |             |             |             |             |     |
| atggaaaanc   | aggcaaatcc   | tgaaatgggc  | tggaaaaaag  | ggaggggaccc | agcactycca  | 60  |
| gggagaaaaac  | ttggcatttc   | ttgggaatct  | aacaggatgc  | agtgaaccca  | agcctttttg  | 120 |
| agagctcacc   | aatcagactg   | cccttgtcta  | tccatgagca  | gatgtttgat  | agtattgcgg  | 180 |
| aggccctcta   | gtgggtatgc   | tgccaagcaa  | ctggagtggc  | acttgggctc  | taatccagtt  | 240 |
| gtctatccct   | ttcaccctgg   | catttcatca  | gccaaacaaa  | aaccaactaa  | ctcagaaaaa  | 300 |
| aaggaaaagcc  | cctcaagggt   | cdttgaccc   | cgatatctac  | atagatgcta  | tcgggggtccc | 360 |
| ctgaggggta   | ccaaacraat   | tcaaagctcg  | aaatcaaata  | gctgctggat  | tcaagtctgt  | 420 |
| ccttttcttg   | tggtctacta   | taaataaaaa  | tgtagactgg  | ataaattaca  | tatactataa  | 480 |
| aaaaaaaaaaaa | aaaaaaaaaaaa | ctcgaggggg  | ggnccgggtac | ccaattcggc  | cttaagttag  | 540 |
| tcgtattaca   | atcatgggnc   | gtcgtttttac | aaagtcgtga  | ctggggnaaa  | acctggcggtt | 600 |
| anccaatttta  | atcggt       |             |             |             |             | 617 |

<210> 315  
 <211> 1130  
 <212> DNA

<213> Homo sapiens

<400> 315

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ggcagcaggc  | catttgtata  | attcttttagt | aaattgtatt  | aatgggagaa | tctgtaagtt  | 60   |
| atgtctgaac  | tttcagggtg  | tcttataaatt | gtctttttcc  | ttatgtcaga | tggtctatgt  | 120  |
| cataagaata  | aaatggttca  | caccaataca  | agtacttagt  | tgtggaaagg | gagagtagaa  | 180  |
| gataaaaatg  | gagattttcc  | tgtgctacag  | gcttagtcaa  | gcttatggtc | tattaatgg   | 240  |
| ttatcaaagg  | caattaaata  | gtgttgaatg  | ttctgctttt  | acctacattt | catttttcat  | 300  |
| gtacttagtt  | acaaattgaa  | ccctcttcta  | tttttttcc   | gctcctgttt | ctgtttcatt  | 360  |
| ttagttttcc  | ttttccctga  | ttatcattta  | ggcatgtaag  | tgacaccag  | tagcattgct  | 420  |
| ttaattctgc  | tggtgacagt  | gccaaagctt  | tactatactc  | ttttgttgt  | ctgttgcttt  | 480  |
| tctcttgcta  | atttgcttga  | ctagataact  | aagaattcag  | gtaagcatta | gctctttgtt  | 540  |
| cactgagaat  | aatacaactt  | gcaagataat  | taatttggat  | tgttctacat | gtatttcgtt  | 600  |
| tattttctctt | taccttggtc  | atttattacg  | acattttgaa  | ttattttaat | acccatattt  | 660  |
| cttctttctt  | ttatggctca  | gctcactatg  | ctttttttta  | atactggtag | cttcctcaag  | 720  |
| gttggaaaac  | aagatctgaa  | tactatagaa  | aataataact  | atttttctgt | ggcatatatta | 780  |
| aagatataat  | ggctttggat  | tttgggggtga | tttttctact  | gtcagtttaa | aaaaaacttg  | 840  |
| tctatttgca  | tttgtgtgtt  | attacttcta  | gttaagagta  | tttccaagga | aagtttcatg  | 900  |
| ttacttattt  | tggtttccatg | tctttttcca  | aaagaactta  | ttttttatat | tataataaat  | 960  |
| atcagtggaa  | aagtaggttt  | cgttatatag  | aaattaaactt | taggctgggt | gcagtgggtc  | 1020 |
| aagcctatat  | ttgggaggcc  | gaggcaggag  | gattgcttga  | atcaggagt  | tcgaaactag  | 1080 |
| cgtgggcaat  | gtagcgagac  | ctggtctcta  | caaaaaaaaa  | aaaaaaaaaa |             | 1130 |

<210> 316

<211> 3740

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (957)..(957)

<223> n equals a,t,g, or c

<400> 316

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| actctctaag  | gcttttttgg  | actcaccaaa  | caggcttctt | gcagtggaga  | tgaatacaga  | 60   |
| tcacttaagg  | ttgactgtgc  | caaattggcat | aggggccctg | aagctaagg   | aaatggaaca  | 120  |
| ctacttctca  | cagggcctgt  | cagttcagct  | gtttaatgat | gggtccaagg  | gcaaactcaa  | 180  |
| tcatttatgt  | ggagctgact  | ttgtgaaaag  | tcatcagaa  | cctccacagg  | gaatggaaat  | 240  |
| taagtccaat  | gaaagatgct  | gttcttttga  | tggagatgca | gacagaattg  | tttattacta  | 300  |
| ccatgatgca  | gatggccact  | ttcatctcat  | agatggagac | aagatagcaa  | cgtaaattag  | 360  |
| cagtttcctt  | aaagagctcc  | tggtggagat  | tggagaaagt | ttgaatattg  | gtgttgta    | 420  |
| aactgcata   | gcaaattggaa | gttcaacacg  | gtatcttgaa | gaagttatga  | aggtacctgt  | 480  |
| ctattgcact  | aagactgggtg | taaaacattt  | gcaccacaag | gctcaagagt  | ttgacattgg  | 540  |
| agtttatatt  | gaagcaaattg | ggcatggcac  | tgcactgttt | agtagagctg  | ttgaaatgaa  | 600  |
| gataaaacaa  | tcagcagaac  | aactggaaga  | tggaaaaga  | aaagctgcta  | agatgcttga  | 660  |
| aaacattatt  | gacttggttta | accaggcgac  | tggtgatgct | atttctgaca  | tgctgggtgat | 720  |
| tgaagcaatc  | ttggctctga  | agggcttgac  | tgtacaacag | tgggatgctc  | tctatacaga  | 780  |
| tcttccaaac  | agacaactta  | aagttcaggt  | tgcagacagg | agagttatta  | gcactaccra  | 840  |
| tgctgaaaaga | caagcagtta  | cacccccagg  | attacaggag | gcaatcaatg  | acctgggtgaa | 900  |
| gaagtacaag  | ctttctcgag  | cttttgtccg  | gccctctgg  | acagaagatg  | tcgtccngag  | 960  |
| tatatgcaga  | agcagactca  | caagaaagtg  | cagatcacct | tgcacatgaa  | gtgagcttgg  | 1020 |
| cagtatttca  | gctggctgga  | ggaattggag  | aaaggcccca | accagggttc  | tgaagataat  | 1080 |
| tttcatattc  | ctgagaaaact | ggacttttta  | caagtcttta | caaaactgtc  | aataataatg  | 1140 |
| gcagtactaa  | gagatttata  | atcataatgt  | ttacaatgca | gcctactgga  | ttgtctctag  | 1200 |
| atctgttttt  | cttaaacact  | aacagaataa  | ttctttataa | ataggttaagc | cttacacttg  | 1260 |
| ttaaagaaat  | ttacctctaa  | tttcagtctc  | actaatgtaa | aatactggga  | cttaagtata  | 1320 |
| caattcagtc  | actaactgta  | cagttttatg  | tggggaacaa | ttcatgcagg  | ctactggaaa  | 1380 |



|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| attaaatctt  | attaccaact  | ccttgtgata | tctttgccat  | caccatcaca | tgagcaagat  | 1440 |
| gatgttttgc  | agcattcccc  | atgtctgata | caaatggaga  | gggcagagaa | gacttttatac | 1500 |
| aaccagtttt  | tccattgcag  | agtcttaaga | aagattatta  | gatgacttac | ctatatgact  | 1560 |
| aatgccatca  | ggaactcaga  | ggtatgaata | gggggttgtc  | catccctctt | ccatactgag  | 1620 |
| gtggagatgc  | tcatgcaata  | cttttaagga | tgcattggtcc | agccttcagt | tatcttcac   | 1680 |
| tgctcttggg  | gaaggtatgt  | gggagaaaaa | ctaattataa  | tacgtttccc | agcctctgat  | 1740 |
| ggagaaggaa  | caccattctg  | ataccagaac | atgggttaata | aggaaaagag | aaaaatcccc  | 1800 |
| aaccaatctt  | aattgaacca  | agtctgaaac | caatggaaaa  | aaaaaatggg | tagtgtatat  | 1860 |
| tttgcaggtt  | taagacaact  | caggacaata | aaaacaatgg  | actttacatg | tgtatatata  | 1920 |
| tagctctctt  | aggcaccata  | atcagtatga | gccacaataa  | tttaaacttg | attcaggcca  | 1980 |
| cattcagaca  | tttgctctta  | tatacaaata | tttaaattaa  | atacaatctg | aaatgtgttc  | 2040 |
| tgttacatac  | aaaaaaggaa  | aaactataca | acgcagagca  | gtgtgttgtt | tttaaataat  | 2100 |
| tacattttaca | tgtaagctaa  | atggaaccag | caatgggtgt  | caagttttta | tcaccccttc  | 2160 |
| cagaaaatct  | ttttctacca  | tctcttctat | tttttgcttg  | gctttgctgg | aacatggttt  | 2220 |
| gtggttctcc  | agtttcatgt  | ccttattagg | gaaggcattt  | gagtagagga | taggactccc  | 2280 |
| tgagtgtcct  | ccacatcggc  | ttgtgacttt | gctgttgaag  | acttgactga | gcacattgaa  | 2340 |
| gaacggcagg  | agctgtctca  | tactgcgcac | ggtgcagatg  | gtgagcagca | agtgccctgg  | 2400 |
| ctcccaaccc  | aatgttctcc  | ctgagttgtc | ttcctctgga  | tttttctgca | gaaaacaaaa  | 2460 |
| agtgaactgg  | tattaatata  | acagacaatg | tggtatgtta  | gaaaaattaa | aaatatataa  | 2520 |
| actttggcaa  | ttgggtcaaga | aatgaatata | aatgacatta  | agtttctaac | tcctgacctg  | 2580 |
| atcaaaaccc  | ttgggtgcttc | tgagaccttt | tacttgccatt | tattagtttt | acatggagca  | 2640 |
| gtctaacatt  | gtagtaatat  | ttcccaacta | gaatgcgcag  | ataagcttag | ttaacagaaa  | 2700 |
| tagctttgaa  | caggaataga  | gtcaaacata | aaagttttat  | gttggtgctt | gtattttactc | 2760 |
| aaaaagctcc  | caggtttctg  | aaccctcact | actgtaacca  | aggactaggt | cacaaaatta  | 2820 |
| ctacagaaaa  | aaggaacaaa  | gtgctttata | catttcataa  | tatatccctt | tttattataa  | 2880 |
| ttagttaatt  | ccctttttatc | taaatggcct | aaatttgcca  | tgatggtagc | agtgtccaaa  | 2940 |
| gtgaataatt  | actgtcagta  | ctgcatcaca | gagaaaggaa  | gggatccctc | aggagacact  | 3000 |
| gctgtctcct  | tctgggttgt  | gctaacaac  | ataggaggga  | aagctggacc | tggagtcaaa  | 3060 |
| ggaattgagt  | tagtgtgctg  | gctctgccat | acttacggca  | cccttgggca | ggatatacaa  | 3120 |
| aggttcctca  | cttataaaat  | gggacagtct | aaaactacct  | tttagtagag | aagtcaaagt  | 3180 |
| agaaggtatg  | tgaaaactct  | gtcaactaaa | tataaagact  | aataatttgg | gtattaagag  | 3240 |
| gctagtttga  | gaagccacct  | gaattacaca | aacacagcta  | cagacatcat | tctgtctaga  | 3300 |
| gaaagataag  | agagaacagg  | ttggttgaac | ttgggcagaa  | tcacagatac | aattccacac  | 3360 |
| taaagaatga  | aaataagcaa  | tgaactagac | agaagggaag  | aatcatgaag | acttaggaag  | 3420 |
| cagaattaca  | atctgtcata  | ttaacaaatg | gagtttgctt  | tctaagatca | gatgttgctc  | 3480 |
| agaaactttc  | attgtttacc  | taataattta | atatcactag  | tttcctagtg | ggtcaagcag  | 3540 |
| atgcaaaatc  | cagcttattt  | tcttctatgt | gctctcaagc  | ttattgctta | ttttaaagta  | 3600 |
| aaatcctgaa  | aaaggaaaat  | attaggttgg | tgcaaacgta  | attgcggttt | ttgcattgtt  | 3660 |
| gaaatttgcc  | gttttatatt  | ggagtagatt | cttaaataaa  | tgtggttatg | ttatacaaaa  | 3720 |
| aaaaaaaaaa  | aaaactcgag  |            |             |            |             | 3740 |

<210> 317

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (963)..(963)

<223> n equals a,t,g, or c

<400> 317

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| cccgaactcta | ggccggaagc | gcgcggagac | catgtagtga | gaccctcgcg | aggtctgagg  | 60  |
| gtcactggag  | ctaccagaag | catcatgggg | ccctggggag | agccagagct | cctgggtgtgg | 120 |
| cgccccgagg  | cggtagcttc | agagcctcca | gtgcctgtgg | ggctggaggt | gaagttgggg  | 180 |
| gcctgtgtgc  | tgctgtgtgt | gctcaccctc | ctctgcagcc | tggtgcccac | ctgtgtgtgt  | 240 |
| cgccggccag  | gagctaacca | tgaaggctca | gcttcccggc | agaaagccct | gagcctagta  | 300 |

|            |             |             |             |            |             |     |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| agctgtttcg | cggggggcg   | ctttttggcc  | acttgtctcc  | tggacctgct | gcctgactac  | 360 |
| ctggctgcc  | tagatgaggc  | cctggcagcc  | ttgcacgtga  | cgctccagtt | cccactgcaa  | 420 |
| gagttcatcc | tggccatggg  | cttcttccctg | gtcctgggtga | tggagcagat | caactggct   | 480 |
| tacaaggagc | agtcaggggcc | gtcacctctg  | gaggaaacaa  | gggctctgct | gggaacagt   | 540 |
| aatggtgggc | cgcagcattg  | gcatgatggg  | ccaggggtcc  | cacaggcgag | tggagcccca  | 600 |
| gcaaccccct | cagccttgcg  | tgcctgtgta  | ctgggtgtct  | ccctggccct | ccactccgtg  | 660 |
| ttcgagggg  | tggcggtagg  | gctgcagcga  | gaccgggctc  | gggcatgga  | gctgtgcctg  | 720 |
| gctttgctgc | tccacaagg   | catectggct  | gtcagcctgt  | ccctgcggct | gttgacagagc | 780 |
| caccttaggg | cacagggtgt  | ggctggctgt  | gggatcctct  | tctcatgcat | gacacctcta  | 840 |
| ggcatcggg  | tgggtgcagc  | tctggcagag  | tggcaggac   | ctctgcaca  | gctggcccag  | 900 |
| tctgtgctag | agggcatggc  | agctggcacc  | tttytytata  | tcaccttctt | ggaaatcctg  | 960 |
| ctntttcatc | ccaaatttaa  | gggggtttca  | agaagaa     |            |             | 997 |

<210> 318  
 <211> 1770  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| <400> 318  |             |             |             |            |             |      |
| gctgagtgtg | agctgagcct  | gccccaccac  | caagatgata  | ctgagcttgc | tgttcagcct  | 60   |
| tgggggcccc | ctgggctggg  | ggctgctggg  | ggcatgggcc  | caggcttcca | gtactagcct  | 120  |
| ctctgatctg | cagagctcca  | ggacacctgg  | ggctctggaag | gcagaggctg | aggacaccag  | 180  |
| caaggacccc | gttgagcgtg  | actgggtgcc  | ctacccaatg  | tccaagtgg  | tcaccttact  | 240  |
| agctctttgc | aaaacagaga  | aattcctcat  | ccactgcag   | cagccgtgtc | cgcaggagct  | 300  |
| ccagactgcc | agaaagtcaa  | agtcatgtac  | cgcatggccc  | acaagccagt | gtaccaggtc  | 360  |
| aagcagaagg | tgttgacctc  | tttggcctgg  | aggtgctgcc  | ctggctacac | gggcccac    | 420  |
| tgcgagcacc | acgattccat  | ggcaatccct  | gagcctgcag  | atcctgggtg | cagccaccag  | 480  |
| gaacctcagg | atggaccagt  | cagcttcaaa  | cctggccacc  | ttgctgcagt | gatcaatgag  | 540  |
| gttgaggtgc | aacaggaaca  | gcaggaacat  | ctgctgggag  | atctccagaa | tgatgtgcac  | 600  |
| cgggtggcag | acagcctgcc  | aggcctgtgg  | aaagccctgc  | tggtaacct  | cacagctgca  | 660  |
| gtgatggaag | caaatacaaac | agggcacgaa  | gttccctgat  | agatccttgg | agcagggtgt  | 720  |
| gctacccccc | gtggacacct  | tcctacaagt  | gcatttcagc  | cccactctga | ggagctttaa  | 780  |
| ccaaagcctg | cacagcctta  | cccaggccat  | aagaaacctg  | tctcttgacg | tggaggccaa  | 840  |
| ccgcccaggc | atctccagag  | tccaggacag  | tgccgtggcc  | agggctgact | tccaggagct  | 900  |
| tggtgccaaa | tttgaggcca  | aggtccagga  | gaacactcag  | agagtgggtc | agctgcgaca  | 960  |
| ggacgtggag | gaacgcctgc  | acgcccagca  | ctttaccctg  | caccgctcga | tctcagagct  | 1020 |
| ccaagccgat | gtggacacca  | aattgaagag  | gctgcgaag   | gctcaggagg | ccccagggac  | 1080 |
| caatggcagt | ctggtgttgg  | caacgcctgg  | ggctggggca  | aggcctgagc | cggacagcct  | 1140 |
| gcaggccagg | ctgggccagc  | tgcagaggaa  | cctctcagag  | ctgcacatga | ccacggcccg  | 1200 |
| cagggaggag | gagttgcagt  | acaccctgga  | ggacatgagg  | gccaccctga | cccggcacgt  | 1260 |
| ggatgagatc | aaggaaactgt | actccgaatc  | ggacgagact  | ttcgatcaga | ttagcaagggt | 1320 |
| ggagcggcag | gtggaggagc  | tgcaggtgaa  | ccacacggcg  | ctccgtgagc | tgcgcgtgat  | 1380 |
| cctgatggag | aagtctctga  | tcattggagga | gaacaaggag  | gaggtggagc | ggcagctcct  | 1440 |
| ggagctcaac | ctcacgctgc  | agcacctgca  | gggtggccat  | gccgacctca | tcaagtacgt  | 1500 |
| gaaggactgc | aattgccaga  | agctctatct  | agacctggac  | gtcatccggg | agggccagag  | 1560 |
| ggacgccacg | cgtgccctgg  | aggagaccca  | ggtgagcctg  | gacgagcggc | ggcagctgga  | 1620 |
| cggctcctcc | ctgcaggccc  | tgcagaacgc  | cgtggacgcc  | gtgtcgctgg | ccgtggacgc  | 1680 |
| gcacaaagcg | gagggcgagc  | gggcgcgggc  | ggccacgtcg  | cggctccgga | gccaaagtga  | 1740 |
| ggcgtgggat | gacgaggtgg  | gcgcgctgaa  |             |            |             | 1770 |

<210> 319  
 <211> 1167  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (432)..(432)

<223> n equals a,t,g, or c

<400> 319

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| gggggtgggg | caggcgacgg | tggggaagat  | ggcgtaccag | agcttgccgc | tggagtacct | 60   |
| gcagatccca | ccggtcagcc | gcgcctacac  | cactgcctgc | gtcctcacca | ccgccgccgt | 120  |
| gcagttggaa | ttgatcacac | cttttcagtt  | gtacttcaat | cctgaattaa | tctttaaa   | 180  |
| ctttcaaata | tggagattaa | tcaccaactt  | cttatttttt | gggccagttg | gattcaattt | 240  |
| tttatttaac | atgatttttc | tatatcgtta  | ctgtcgaatg | ctagaagaag | gctctttccg | 300  |
| aggtcggaca | gcagactttg | tatttatgtt  | cctttttggt | ggattcttaa | tgaccctttt | 360  |
| tggctctgtt | gtgagcttag | ttttcttggg  | ccaggccttt | acaataatgc | togtctatgt | 420  |
| gtggagccga | angaaccctt | atgtccgcct  | gaacttcttc | ggccttctca | acttccaggc | 480  |
| cccctttctg | ccctgggtgc | tcatgggatt  | ttccttggtg | ttggggaact | caatcattgt | 540  |
| ggaccttttg | ggtattgcag | ttggacacat  | atattttttc | ttggaagatg | tattcccaa  | 600  |
| tcaacctggt | ggaataagaa | ttctgaaaac  | accatctatt | ttgaaagcta | tttttgatac | 660  |
| accagatgag | gatccaaatt | acaatccact  | acctgaggaa | cggccaggag | gcttcgcctg | 720  |
| gggtgagggc | cagcggcttg | gagggttaaag | cagcagtgcc | aataatgaga | cccagctggg | 780  |
| aaggactcgg | tgataccac  | tgggatcttt  | tatcctttgt | tgcaaaaagt | tggaactttt | 840  |
| tgacagcttg | gcagatttta | actccagaag  | cactttatga | aatggtagac | tgactaatcc | 900  |
| agaagacatt | tccaacagtt | tgccagtggg  | tcctcactac | actggtactg | aaagtgtaat | 960  |
| ttcttagagc | caraaaactg | gagaaaacaa  | tatcctgcca | cctctaaaa  | gtacatgagt | 1020 |
| acttgatttt | tatggtataa | gcagagcctt  | ttcttctctt | tcttgataga | tgaggccatg | 1080 |
| gtgtaaatgg | aagtttcaga | gaggacaaaa  | taaaacggaa | ttccattttt | ctctcactgt | 1140 |
| aaaaaaaaaa | aaaaaaaaag | cggccgc     |            |            |            | 1167 |

<210> 320

<211> 1618

<212> DNA

<213> Homo sapiens

<400> 320

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| ccacgcgtcc | gcaaggagcc  | agaggccatg | cagtggctca | gggtccgtga  | gtcgccctggg | 60   |
| gaggccacag | gacacagggt  | caccatgggg | acagccgcc  | tgggtccgt   | ctgggcagcg  | 120  |
| ctcctgtctt | ttctcctgat  | gtgtgagatc | cctatgggtg | agctcactt   | tgacagagct  | 180  |
| gtggccagcg | actgccaacg  | gtgctgtgac | tctgaggacc | ccctggatcc  | tgcccatgta  | 240  |
| tcctcagcct | cttctcccg   | ccgccccac  | gcctgcctg  | agatcagacc  | ctacattaat  | 300  |
| atcaccatcc | tgaagggtga  | caaaggggac | ccaggcccaa | tgggcctgcc  | agggtagatg  | 360  |
| ggcagggagg | gtccccaagg  | ggagcctggc | cctcagggca | gcaaggggtga | caagggggag  | 420  |
| atgggcagcc | ccggcgcccc  | gtgccagaag | cgttctctcg | ccttctcagt  | gggccgcaag  | 480  |
| acggccctgc | acagcggcga  | ggacttccag | acgtgtctct | tcgaaagggt  | ctttgtgaac  | 540  |
| cttgatgggt | gctttgacat  | ggcgaccggc | cagtttgctg | ctcccctgcg  | tggcatctac  | 600  |
| ttcttcagcc | tcaatgtgca  | cagctggaat | tacaaggaga | cgtacgtgca  | cattatgcat  | 660  |
| aaccagaaag | aggctgtcat  | cctgtacgcg | cagccagcg  | agcgcagcat  | catgcagagc  | 720  |
| cagagtgtga | tgtctggacct | ggcctacggg | gaccgcgtct | gggtgcggct  | cttcaagcgc  | 780  |
| cagcgcgaga | acgccatcta  | cagcaacgac | ttcgacacct | acatcacctt  | cagcggccac  | 840  |
| ctcatcaagg | ccgaggacga  | ctgagggcct | ctgggccacc | ctcccggctg  | gagagctcag  | 900  |
| ctgatacggc | atcctgcgag  | aagacctgcc | ctcctcactg | ggatcccctt  | cctgcctcct  | 960  |
| cccagggtct | tgccaggggc  | ttgctcagtc | ccttcacca  | aagtcattctg | aacttccgtt  | 1020 |
| tccaggggcc | tccagctgcc  | ctcagacact | gatgtctgtc | cccagggtgct | ctctgcccct  | 1080 |
| catgcccctc | tcaccggccc  | agtgcctcga | ctctccaggc | tttatcaagg  | tgctaaggcc  | 1140 |
| cgggtgggca | gtcctcgtc   | tcagagccct | cctccggcct | ggtgctgcct  | ttacaaacac  | 1200 |
| ctgcaggaga | agggccacgg  | aagccccagg | ctttagagcc | ctcagcaggt  | ctggggagct  | 1260 |
| agagcaaagg | agggacctca  | ggccttccgt | ttcttcttcc | aggggtgggt  | ggcctggtgt  | 1320 |
| tcccctagcc | ttccaaaacc  | aggtggcctg | cccttctccc | cagagggagg  | cggcctccgc  | 1380 |
| ccattggtgc | tcatgcagac  | tctggggctg | aggtgccccg | gggggtgatc  | tctggtgctc  | 1440 |
| acagtcaggg | gagccgtggc  | tccatggcca | gatgacggaa | acagggtctg  | accaagtgcc  | 1500 |
| aggaagacct | gtgctataaa  | ccacctgcc  | tgatcctgcc | cctgcctgac  | cccgccacgc  | 1560 |

cctgccgtcc agcatgatta aagaatgctg tctcctcttg gaaaaaaaaa aaaaaaaa 1618

<210> 321  
 <211> 1338  
 <212> DNA  
 <213> Homo sapiens

<400> 321  
 cccacgcgtc cggttccccc atctgtctct caggagcgag atctgatcgc tgaatttgcc 60  
 caagtcacaa attggtccag ctgctgcttg cgtgtctttg catggcacc cccacaccaac 120  
 aagtttgacg tggccctgct agatgacta gtccgtgtgt ataatgccag cagcaccata 180  
 gtcccccctc tgaagcaccg gctgcagcga aatgtggcgt ctctggcctg gaagcccctt 240  
 agtgccctctg tcttggtgtg ggccctgccag agctgcattc ttatctggac cctggaccct 300  
 acctccttgt ctacccgacc ctcttctggc tgtgcccag tctgtctca ccctgggcat 360  
 acacctgtta ccagcttggc ctgggcccc agtggggggc ggctgctctc agcttcaccg 420  
 tggatgctgc tatccgggta tgggatgtct caacagagac ctgtgtcccc ctccctgtgt 480  
 ttcgaggagg tggggtgacc aactgctctg gtccccagac ggcagcaaaa tcctggctac 540  
 cactccttca gctgtctttc gactctggga ggcccagatg tggacttgtg agaggtggcc 600  
 tactctatca gggcgctgtc agactggctg ctggagccca gatggcagcc gactgctgtt 660  
 cactgtattg ggagagccac tgatttactc cctgtctttt ccagaacggt gtggtgaggg 720  
 aaaggggtgc gttggagggtg caaagtcagc aacgattgtg gcagatctgt ctggaacaac 780  
 aatacagaca ccagatgggtg aggagaggct tgggggagag gctcactcca tggctctggga 840  
 cccagtgagg gaacgtcttg ctgtgcttat gaaaggaaa ccaagggtag aggatggtaa 900  
 accagtcata ctcccttttc gactcagaaa cagccctgtg tttgagctcc ttccctgtgg 960  
 cattatccag ggggagcag gagcccagcc ccagctcctc actttccatc ttcccttcaac 1020  
 aaagggggcc tgcctagtggt gggctgggtc acaggccgaa ttgcccacat ccgctgtac 1080  
 tttgtcaatg ccagtttcc acgttttagc ccagtgcttg ggcgggccca ggaacccctt 1140  
 gctgggggtg gaggtcttat tcatgacctg cccctcttta ctgagaca cccaacctct 1200  
 gccccttggg acctctctcc agggccacca cctgttctgc cccactcccc acattcccac 1260  
 ctctaagaat aaataagttt tccttttgtt ttccaaaaaa aaaaaaaaaa aaaaaaaaaa 1320  
 aaaaaaaaaa aaaaaaaa 1338

<210> 322  
 <211> 1892  
 <212> DNA  
 <213> Homo sapiens

<400> 322  
 ccacgcgtcc gcgggaccgg acggatcttc tccggccatg aggaagccag ccgctggctt 60  
 ccttccctca ctccgaagg tgctgtcctt gcctctggca cctgccgcag cccaggattc 120  
 gactcaggcc tccactccag gcagccctct ctctcctacc gaatacgac gcttcttcgc 180  
 actgctgact ccaacctgga aggcagagac tacctgccgt ctccgtgcaa cccacggctg 240  
 ccggaatccc acactcgtcc agctggacca atatgaaaac cacggcttag tgcccgatgg 300  
 tgctgtctgc tccaacctcc cttatgcctc ctggtttgag tctttctgcc agttcactca 360  
 ctaccgttgc tccaaccacg tctactatgc caagagagtc ctgtgttccc agccagtctc 420  
 tattctctca cctaactctc tcaaggagat agaagcttca gctgaagtct caccaccac 480  
 gatgacctcc cccatctcac cccacttcac agtgacagaa cgccagacct tccagccctg 540  
 gcctgagagg ctacgaaca acgtggaaga gctcctacaa tctccttggt ccctgggaag 600  
 ccaggagcaa gcgccagagc acaagcagga gcaaggagtg gagcacaggc aggagccgac 660  
 acaagaacac aagcaggaag aggggcagaa acaggaagag caagaagagg aacaggaaga 720  
 ggagggaaaag caggaagaag gacaggggac taaggaggga cgggaggctg tgtctcagct 780  
 gcagacagac tcagagccca agtttactc tgaatctcta tcttctaacc ctctctctt 840  
 tgctccccgg gtacgagaag tagagtctac tcctatgata atggagaaca tccaggagct 900  
 cattcgatca gcccaggaaa tagatgaaat gaatgaaata tatgatgaga actcctactg 960  
 gagaaccaa aacctgtgca gcctcctgca acagagcctt gctgggtgctg 1020  
 tgctattcga tcgtggagaa tacctgcata ataaccacca cagccaaggc ctggaagtac 1080  
 atggaggagg agatccttgg tttcgggaag tcggtctgtg acagccttgg gcggcgacac 1140

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| atgtctacct  | gtgccctctg  | tgactttctgc | tccttgaagc  | tgagagcagt  | ccactcagag | 1200 |
| gccagcctgc  | agcggcaaca  | atgcgacacc  | tcccacaaga  | ctccctttgc  | agccccttgc | 1260 |
| ttgcctccca  | gagcctgtcc  | atcggcaacc  | aggtagggtc  | cccagaatca  | ggccgctttt | 1320 |
| acgggctgga  | tttgtacggg  | gggctccaca  | tggtacttctg | gtgtgcccgg  | cttgccacga | 1380 |
| aaggctgtga  | agatgtccga  | gtctctgggt  | gctccagac   | tgagttcctt  | agcttccagg | 1440 |
| atggggattc  | cctaccaaga  | tttgtgacac  | agactatata  | cagtacccaa  | actactgttc | 1500 |
| cttcaaaaagc | cagcagtgtc  | tgatgagaaa  | ccgcaatcgg  | aagggtgtccc | gcatgagatg | 1560 |
| tctgcagaat  | gagactttaca | gtgcgctgag  | ccctggcaaa  | agtgaggacg  | ttgtgcttcg | 1620 |
| atggagccag  | gagttcagca  | ccttgactct  | aggccagttc  | ggatgagctg  | gcgtctattc | 1680 |
| tgcccacacc  | ccagcccaac  | ctgcccacgt  | tctctattgt  | tttgagaccc  | cattgctttc | 1740 |
| aggctgcccc  | ttctgggtct  | gttactcggc  | ccctactcac  | atttccttgg  | gttggagcaa | 1800 |
| cagtcccaga  | gagggccatg  | gtgggagtgc  | gccctcctta  | aaagatgact  | ttacataaaa | 1860 |
| tgttgatctt  | caaaaaaaaa  | aaaaaaaaaa  | aa          |             |            | 1892 |

<210> 323  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 323   |            |            |             |            |            |     |
| gaagaaggta  | cgctgcaggt | accggtccgg | aattcccggg  | tcgaccacag | cgtccgccaa | 60  |
| aagcagacat  | agcttcagat | gcagcttgat | ccagggtcca  | gatgccatga | tcagaatcca | 120 |
| attcttgcac  | ctgtttcttt | gggttggctt | cattttcagg  | cagccccctt | cctcatatcc | 180 |
| tcaagatggc  | agagacagcc | catggtcttt | cccttgacga  | gacagatcac | caggaaacaa | 240 |
| tacctctatc  | cctagccatg | aaacagctct | gaactttatt  | ctgacttgat | cagccaagtc | 300 |
| cctgtttgaa  | ccatcactgc | ctagcttagg | cctgagacag  | tgtctgcact | ctactaccaa | 360 |
| agggccgggt  | ggccttccct | aaagtgtatg | tgtctgcgtg  | gggagaggta | cggatctgaa | 420 |
| ccaaaacgag  | ggctgtccag | cgtcagcaaa | tatctcccgc  | agtcccagtg | cctccagag  | 480 |
| gaggcaaaagc | atcaaccctt | ccgtctggct | cctctactga  | aaattccctc | agcagcctca | 540 |
| caggccttag  | gcttgtctta | gctacttctt | catctacttt  | tttgctttct | taattatttt | 600 |
| tcttttcttt  | tttcttattt | tattttattt | tatttttagat | ggagtttcgc | tccgtcgccc | 660 |
| aggctgaagt  | gcagtggcgt | gatcttggct | cgttgcaacc  | tccacctccc | gggttcagga | 720 |
| gaatcgcttg  | agccccagga | ggcggagggt | gtgggaagcc  | aagatcgcac | cactgcactc | 780 |
| cagcctgggc  | aacaagagca | gaacgccatc | tca         |            |            | 813 |

<210> 324  
 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 324   |            |             |             |             |            |     |
| ccacgcgtcc  | gagacattta | aactagattc  | ccagtcctct  | ccttcaaaaag | cttggctctt | 60  |
| gtttttccta  | tagggaaaaa | agtcaaaaata | agttccaaaa  | actatcctca  | aagtagtatt | 120 |
| gtgctttag   | taaatgaagg | ttggatggat  | ggatactgac  | aatgggtggca | ggcatttcaa | 180 |
| gcctttttaa  | ttagtacttt | ttgtcgtctt  | gcttattaaa  | attttgttaa  | ttttagcaaa | 240 |
| gaccaattgt  | tgtgataaac | tggtgttttt  | tggtatgctt  | aagcacacgt  | taaccaattt | 300 |
| tttaattccc  | cttttggttc | ctcccattgt  | tctaaaatag  | gactttcata  | ttattaaaac | 360 |
| ctcaaaagat  | gatccacca  | ggatgaacaa  | agatcaccaa  | ggggaaagaaa | acattttttt | 420 |
| atctttacag  | aaaacatggt | aagattatat  | atagatgtat  | tctttacatt  | ggatattgta | 480 |
| ttagagtcct  | ccttacaaga | aatgaaatag  | tttttagcac  | tcttagcatt  | agagttccta | 540 |
| gattgggtgt  | gatagctaca | gttttaaaat  | gtataacctg  | aaaatgaagg  | ttaattttgc | 600 |
| attgtaagag  | cacatttgat | ctatgtaaaa  | agtggtccatt | tggtgtattt  | ttttaaaaaa | 660 |
| gagaaaagcac | tttcatatta | agtagcatgt  | gtatgaattt  | agattttcat  | atttgtttgt | 720 |
| tctgtattca  | gtgaagtaaa | ttgagcattt  | aaatgtttgt  | tgatggcaac  | attaactatt | 780 |
| aaattaaagc  | accttatact | ctgctgctta  | acttgcttgt  | aattgacct   | ttgttacctg | 840 |
| cacattttta  | tatagaatat | tggttgtaaca | ttgcttcatg  | tgggtctgga  | tggaagatta | 900 |
| gtgggcctac  | aggatcattt | atttatattg  | tttatattac  | aataatatat  | tgtagatcag | 960 |

|            |             |             |             |           |           |      |
|------------|-------------|-------------|-------------|-----------|-----------|------|
| ttgtaagttc | atttcttttac | aaataaaaagc | ctctttccatt | tgaaaaaaa | aaaaaaaaa | 1020 |
| aaaaaaaaa  | aaaaaaaaa   |             |             |           |           | 1038 |

<210> 325  
 <211> 2383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (538)..(538)  
 <223> n equals a,t,g, or c

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 325   |            |             |             |             |             |      |
| gagccacga   | gaggcagcgc | catggcggag  | cagacctact  | gtgggccta   | ttccctggtg  | 60   |
| gattccagtc  | aagtgtctac | atttctgatt  | tccattcttc  | ttatagtcta  | tggtagtatty | 120  |
| aggtccctta  | atatggactt | tgaaaatcaa  | gataaggaga  | aagacagtaa  | tagttcttct  | 180  |
| gggtctttca  | atggcaacag | caccaataat  | agcatccaaa  | caattgactc  | tacccaggct  | 240  |
| ctgttccttc  | caattggagc | atctgtctct  | cttttagtaa  | tgttcttctt  | ctttgactca  | 300  |
| gttcaagtag  | ttttacaat  | atgtacagca  | gttcttgcaa  | cgatagcttt  | tgcttttctt  | 360  |
| ctcctcccga  | tgtgccagta | tttaacaaga  | ccctgctcac  | ctcagaacaa  | gatttccttt  | 420  |
| ggttgctgtg  | gacgtttcac | tgctgtctgag | ttgctgcat   | tctctctgtc  | tgatcatgtc  | 480  |
| gtcctcatct  | gggttctcac | tgccattgg   | cttctcatgg  | atgcaactgg  | catgggcntc  | 540  |
| tgtgtcgcca  | tgatcgctt  | tgtccgcctg  | ccgagcctca  | aggtctcctg  | cctgcttctc  | 600  |
| tcagggtctc  | tcctctatga | tgtcttttgg  | gtatttttct  | cagcctacat  | cttcaatagc  | 660  |
| aacgtcatgg  | tgaaggtggc | cactcagccg  | gctgacaatc  | cccttgacgt  | tctatcccgg  | 720  |
| aagctccacc  | tggggcccaa | tggtgggcgt  | gatgttcttc  | gcctgtctct  | gcctggaaaa  | 780  |
| ctggtcttcc  | caagctccac | tggcagccac  | ttctccatgt  | tgggcatcgg  | agacatcgtt  | 840  |
| atgcctggtc  | tcctactatg | ctttgtcctt  | cgctatgaca  | actacaaaaa  | gcaagccagt  | 900  |
| ggggactcct  | gtggggcccc | tggaacctgcc | aacatctccg  | ggcgcatgca  | gaaggtctcc  | 960  |
| tacttttact  | gcaccctcat | cggatacttt  | gtaggcctgc  | tcactgctac  | tggtggcgtct | 1020 |
| cgcattcacc  | gggccgccca | gcccgccttt  | ctctatttgg  | tgccatttac  | tttattgcca  | 1080 |
| ctcctcacga  | tgccctattt | aaagggcgag  | ctccggcgga  | tgtgggtctga | gcctttccac  | 1140 |
| tccaagtcca  | gcagctcccc | attcctggaa  | gtatgatgga  | tcacgtggaa  | agtgaccaga  | 1200 |
| tgggcgtcat  | agtccttttc | totcaactca  | tggtttgttt  | cctcttagag  | ctggcctggt  | 1260 |
| actcagaaat  | gtacctgtgt | ttaaggaaact | gccgtgtgac  | tggatttggc  | atttaaaggg  | 1320 |
| agctcgtttg  | caggagagag | gtgctggagc  | cctgttttgt  | tccttctctt  | cctgcggatg  | 1380 |
| tagaggtggg  | gccccttcca | agagggacag  | gcctctcccc  | agcgcgcctt  | cctcccacgt  | 1440 |
| ttttatggat  | ctgcaccaga | ctgttacctt  | ctggggggaga | tggagatttg  | actgttaaa   | 1500 |
| aactgaaaac  | agcagaggag | ctttctagaa  | cttttgaaca  | ctaaaaggat  | gaaaaaaatt  | 1560 |
| agcaaaccca  | agtttcttca | atgacccctc  | gagaactttg  | ggaccagttt  | cctatrgggg  | 1620 |
| actcagtttc  | agagaactga | gacagaagct  | cttctgtcgt  | tatattcttc  | tttccttttt  | 1680 |
| ttggattttat | taaatatatt | ctgtggtgtg  | aagtgactta  | ttaaatccac  | agacattgag  | 1740 |
| tgacttctta  | caacatccac | ataagrattt  | gttgtaatga  | gttcatgtcc  | accagatgt   | 1800 |
| tgtgttggca  | gtgaacaagg | gcacggtttt  | tatacatatg  | tacatatata  | tatatataaa  | 1860 |
| cacacataga  | tatatatgaa | taaaacaaaa  | tgaaatcctg  | ctaagatcac  | gctgtgtagc  | 1920 |
| tgacaggggc  | ttgctgtcgt | tttgagcatg  | tcgagcagtt  | tactgtggct  | tccttgata   | 1980 |
| tgataagct   | gctgtccttc | cccttcacaa  | ctgaccccg   | agttacaaac  | tagtatagca  | 2040 |
| tttgtgctga  | ttgatgatag | actcatggac  | ttcaggagcc  | cttacttggg  | tttgatcagt  | 2100 |
| gtagcaaatt  | aggatgaag  | agttcaaacc  | ttttggccct  | ttctttcttt  | tctaggcttc  | 2160 |
| tccctcgag   | gggtgtccgt | agtttcttct  | cgagccaatg  | catgtattat  | agcagcaggt  | 2220 |
| gtctttgtgc  | tttctcatca | tagtaacgta  | ctacttgtaa  | atacattttt  | ctatttttcta | 2280 |
| tttttttcta  | tttttttttg | acatttttgt  | tcattgggtg  | gctgatatt   | ttccatgccc  | 2340 |
| tcactccttt  | aagaaaaaaa | aaaaaaaagg  | aaaaaagcaa  | cac         |             | 2383 |

<210> 326  
 <211> 2081

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (538)..(538)  
<223> n equals a,t,g, or c

```

<400> 326
gggtttctcaa tggaaaaata ttggtagaca tcagcaacaa cctcaaaatc aatcaatata      60
cagaatctaa tgcagagtac cttgctcatt tggtgccagg agcccacgtg gtaaaagcat      120
ttaacacccat ctcagcctgg gctctccagt caggagcact ggatgcaagt cggcaggtgt      180
ttgtgtgtgg aaatgacagc aaagccaagc aaagagtgt gatattgtt cgtaatcttg      240
gacttactcc aatggatcaa ggatcactca tggcagccaa agaaattgaa aagtaccccc      300
tgcagctatt tccaatgtgg aggttcccc tctatttgtc tgctgtgctg tgtgtcttct      360
tgtttttcta ttgtgttata agagacgtaa tctaccctta tgtttatgaa aagaaagata      420
atacatttcg tatggctatt tccattccaa atcgtatctt tccaataaca gcacttacac      480
tgcttgcttt ggtttactcc ctggtgttat tgctgccatt ctacaactgt accgaggnca      540
caaaataccg tcgattccca gactggcttg accactggat gctttgccga aagcagcttg      600
gcttggtagc tctgggattt gccttccttc awgtcdctm cmcacttggt attcctattc      660
gatattatgt acgatgraga ttgggaaact taaccgttac ccagscaata ctcaagaagg      720
agaatccatt tagcacytcy tcagcctggc tcagtgttcc atatgtggct ttgggaatac      780
ttgggttttt tctgtttgta ctcttgggaa tcacttcttt gccatctgtt agcaatgcag      840
tcaactggag agagttccga tttgtccagt ccaaactggg ttatttgacc ctgatcttgt      900
gtacagccca caccctggtg tacggtggga agagattcct cagcccttca aatctcagat      960
ggtatcttcc tgcagcctac gtgttagggc ttatcattcc ttgcactgtg ctggtgatca     1020
agtttgtcct aatcatgcca tgtgtagaca acacccttac aaggatccgc agggctggga     1080
aaggaactca aaacactaga aaaagcattg aatggaaaat caatatTTaa aacaaagttc     1140
aatTTtagctg gattttctgaa ctatggtttt gaatgtTTaa agaagaatga tgggtacagt     1200
taggaaagtt tttttcttac accgtgactg agggaaacat tgcttgtctt tgagaaattg     1260
actgacatac tggaagagaa caccatttta tctcaggtta gtgaagaatc agtgcaggtc     1320
cctgactctt attttcccag aggccatgga gctgagattg agactagcct tgtgggtttca     1380
cactaaagag tttccttggt atgggcaaca tgcatgacct aatgtcttgc aaaatccaat     1440
agaagtattg cagcttcctt ctctggtcga agggctgagt taagtgaaag gaaaaacagc     1500
acaatggtga ccactgataa aggccttatt aggtatatct gaggaagtgg gtcacatgaa     1560
atgtaaaaag ggaatgaggt ttttgttggt ttttggaagt aaaggcaaac ataaatatta     1620
ccatgatgaa ttctagttaa atgaccctt gactttgctt ttcttaatac agataTTac     1680
tgagaggaac tatttttata acacaagaaa aatttacaat tgattaaaag tatccatgtc     1740
ttggatacat acgtatctat agagctggca tgaattctt cctctataaa gaataggtat     1800
aggaagact gaataaaaaa ggagggatat ccccttggtat ttcacttgca ttgtgcaata     1860
agcaaagaag gggtgataaa agttcttgat caaaaagttc aaagaaacca gaattttaga     1920
cagcaagcta aataaatatt gtaaaattgc actatattag gttaagtatt atttaggtat     1980
tataatatgc tttgtaaatt ttatattcca aatattgtc aatatttttc atctattaaa     2040
ttaatttcta gtgtaaaaaa aaaaaaaaaa agggcgccg c                                     2081

```

<210> 327  
<211> 646  
<212> DNA  
<213> Homo sapiens

```

<400> 327
tcgacccacg cgtccgataa ctttttcaag caatatcagt gagtgggtcc catcgacagg      60
gttccaggac ctggaacact ttaacagaag gaaatgccga agcagcttgc acagttgctt      120
tacagacttc caagaggctg attctggctt caagatggag ccttggagtt ggtttttttt      180
tttttttttt ttcttccctc aaagaacctg cggttgcgct ttgtgtgttt tgtttttgtt      240
ttccatttgg gggcccatg ggaaagagct tctgaactct ttcccttatg aactccact      300
gtgttcctat aaaggccctt ttctttctta gtgttgtaag ttacattttcattatgcccc      360

```

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| atcacatctt | ctttactgta | aaaatattaa  | aaagctgttt  | ccaagtggga | cagctaataga | 420 |
| agctctaatt | attgcagaca | tatTTTTtgag | atgtaaaaaa  | aaaaatttaa | agttaaataga | 480 |
| taagtcttag | aggcgagtga | ggaataaaaat | ggatgtaaac  | atttacatgg | gatgcatttag | 540 |
| aattctgctg | tgtgtactgt | cttttggttg  | aaacaaatta  | tgaacagtga | ctaataataa  | 600 |
| aaagtcaata | cccaawraaa | aaaaaaaaaa  | aaaaaaaaagg | gcggcc     |             | 646 |

<210> 328  
 <211> 312  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 328  |            |            |            |             |            |     |
| aattcccggg | tcgacccacg | cgtccgtgat | gagtggattt | gtactcttacc | cagggtcctg | 60  |
| agggccagcc | cacccagcat | ccccaccct  | gatgacgctg | tccctacaac  | tggctgaact | 120 |
| ggtgcatttt | gtgtgtgcct | tccagagcca | gtggactggt | gtgtatccaa  | tgatgccacc | 180 |
| tctgaaacct | acagaaccac | tatgctttgc | atgtgtaccc | tgcagggctc  | gagggccagg | 240 |
| ctgtctggta | gctctgctcc | tgggtgacag | agcaagactc | tgtctcaaaa  | aaaaaaaaaa | 300 |
| agggcggccg | ct         |            |            |             |            | 312 |

<210> 329  
 <211> 826  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (726)..(726)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |            |     |
|------------|-------------|------------|-------------|-------------|------------|-----|
| <400> 329  |             |            |             |             |            |     |
| ggtcgaccca | cgcgctccggc | tccctttggt | ttgggtggcag | ccttcttgtg  | ctgtatactt | 60  |
| gttccctagg | gtgtataata  | atatgtgcac | tagagtgcta  | ggtaccctac  | cacattgctg | 120 |
| ggaccttgcc | acactgctgc  | agccttccag | taggatattg  | gggaatgtca  | gtgaggctcc | 180 |
| agggatgtag | atatgtaggg  | aatggtggac | cccagggcaa  | catgcaatct  | ggtaggagtt | 240 |
| gggctctcaa | aatgggtgctg | ctgtgtaaca | gctgcttggg  | tcttggggta  | gggagtgtag | 300 |
| gaccagcat  | gagctccctc  | tttggagcag | tgctgtctga  | gactccaggc  | agctccgtgt | 360 |
| attagtctca | ggacctgcaa  | aggcctaggg | gctctttttg  | ggaggactg   | caggagtctc | 420 |
| catggtggga | atgtgaacca  | ctggaaatct | ctcatttacc  | atttccctgt  | actggagatg | 480 |
| ctttctgggc | tcccagatga  | tactarctgg | gctggttgcc  | tcamttcctt  | ctccctctgt | 540 |
| gcataaggca | ttttctgtca  | cttctctgct | gaactctagt  | gttctttctt  | agaggctgta | 600 |
| ctcaaagttt | cattatccat  | tcagtatttt | tattcttctt  | tgtggagggtg | gcaagtgcta | 660 |
| ggtgcctcta | gtcaatcatc  | ttgaagcccc | ctgttatgtt  | aaagtcttta  | atggaaaaag | 720 |
| aagacnacat | gcatgaccag  | gcagatactt | tgagcagagt  | cataggaact  | gctaaaaaaa | 780 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaagg  | gcggcc      |            | 826 |

<210> 330  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (770)..(770)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| <400> 330  |            |            |            |            |            |    |
| atgtgctggg | ctcaggaaaa | gttcaaccca | tcaatagggt | atcacatata | tatactctgg | 60 |



|            |            |              |            |            |             |     |
|------------|------------|--------------|------------|------------|-------------|-----|
| gactgattgg | accacat    | ctcactgaat   | tgactgattg | atgaattcag | ttggcagaat  | 120 |
| taactcttct | atgtctacat | gaagtgccat   | ttagaaataa | tcaactctta | atcagcctgg  | 180 |
| gatagtcagt | actaaaagca | ccttcacatgag | ctgtgaaaaa | tttaatgcat | ttattttacat | 240 |
| atttagtttt | aaattttagt | atattgttag   | ttgagtata  | gtttccaaac | aaagagccgt  | 300 |
| gaaatgttta | gtaactgtct | ctgtacctct   | ggatgaggac | agctcagccg | ggaatggagg  | 360 |
| gggactgggt | gaggagacca | gaatgtcagt   | gtggccacgc | agcacacttt | tgttttgtct  | 420 |
| tctgtccttg | agcactggct | tgttcctgga   | taaactaggc | ataataatac | ctatcctgct  | 480 |
| gtgtgggtgg | aaggttaaat | gtgataatga   | tgtgtgtgag | atgcctgcac | agtgcctgga  | 540 |
| ggtattgaag | aattatttgc | tgccttttct   | ttttctacct | accacttacc | cgctaccccc  | 600 |
| gggtgctaca | tgtagaaaa  | cactgtgtaa   | agtgtggatg | cttctgaaaa | atctccctgc  | 660 |
| cagcagttag | tgccaatagc | gtgcagaaa    | taagatgcaa | tgatttggct | tcttttctgt  | 720 |
| ttggcaataa | gaagcttatt | tgacacatagc  | ctgatttctt | tcaatctgcn |             | 770 |

<210> 331  
 <211> 1276  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| <400> 331   |            |            |             |             |             |      |
| tcgaccacg   | cgtccgccca | cgcgtccgct | taatatctgt  | attcccagtt  | gcctacggga  | 60   |
| taaaagccca  | aactccttag | cagagaatat | aaggccctag  | ctcccacatt  | atttcagcag  | 120  |
| tcatcaccca  | ctatgttctt | caagactgca | gccattaact  | ttttagagtt  | ccctaaacat  | 180  |
| gctgtttact  | ttcatgcctc | tatcccgttg | tctgtggaat  | gacttccctc  | cttgcccttt  | 240  |
| tcagtgtctac | aaacccttat | tctttaagc  | atagtacaaa  | tggcatctcc  | tggttggcat  | 300  |
| ctttcctgca  | ggcctacagg | cctagtaagt | atcttctctc  | tctgtgctcc  | tgcatacctc  | 360  |
| cattcctttg  | ttatgacatc | tataacttta | ataagtacta  | aaatctgtag  | tcctacaaaa  | 420  |
| ctcaggcata  | gaactcattt | cctttatggy | tctataatgg  | aactttaccc  | aactctcag   | 480  |
| ttcccatga   | ccacagatgt | ggaaaatttg | aatcttgaca  | gttcaagggtg | aactcagtca  | 540  |
| ttttcagagt  | tttcatagtc | ccttcaagat | tgaactcag   | ttcctgcaat  | gtttgcccct  | 600  |
| tttctcctct  | tttgtctatg | ctgggagagg | cattgtgggg  | agggttgtct  | ggcttatggc  | 660  |
| tcccattgtc  | ctctgcttga | taccacct   | gagctttggg  | cattagcagt  | ctcctgtgcc  | 720  |
| tttcacactc  | aggtagtgtc | tgacaggcc  | actctatgtc  | ttttccatgc  | tgaagaaatt  | 780  |
| cctttccagg  | ccatgtctgt | gttctctctg | ccacacagga  | aatttttgag  | catgttcatc  | 840  |
| ctccaagctg  | aatgcagggt | cttgggtagt | ggtcctcacc  | tgctccagag  | actctccag   | 900  |
| ccattgccac  | tctccactca | ggtgatgaag | ctggatgagg  | gactgcaccc  | accagagtca  | 960  |
| ggccagggtc  | ctgtctgtct | tgtgagtcct | tccaattgtt  | cttattccga  | gatttccatt  | 1020 |
| gttctgcccc  | ctcttgactc | ccagggtctt | caagggtagt  | ggggtagtga  | aggagacctt  | 1080 |
| ttcccaagct  | cccccaagag | ctctagtcac | atcacttctg  | atacttcttt  | tcccaccagc  | 1140 |
| tggaagaaa   | aactttcatt | tgtcttgaaa | tgagaaaaat  | gttcttagaa  | tattttgtat  | 1200 |
| tactctctgc  | tctgtcattt | atggtaaaca | aaataaaaata | ataaaaaaaaa | aaaaaaaaaaa | 1260 |
| aaaaaaaaag  | gcggcc     |            |             |             |             | 1276 |

<210> 332  
 <211> 1237  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (942)..(942)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (949)..(1184)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1187)..(1187)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1194)..(1194)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1196)..(1196)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1218)..(1218)  
 <223> n equals a,t,g, or c

<400> 332  
 gcaacctggg cttttatata gaagaatacg aatcacaggt gtgtgagcat ctacttaatt 60  
 aatttgctta cagccgattt cctgcttact ctggcattac cagtgaataat tggtgttgac 120  
 ttgggtgtgg caccttggaa gctgaagata ttccactgcc aagtaacagc ctgctcatc 180  
 tatatcaata tgtatttatc aattatcttc ttagcatttg tcagcattga ccgctgtctt 240  
 cagctgacac acagctgcaa gatctaccga atacaagaac ccggatttgc caaaatgata 300  
 tcaaccgttg tgtggctaata ggctccttctt ataattgggtc caaatatgat gattcccatc 360  
 aaagacatca aggaaaagtc aaatgtgggt tgtatggagt ttaaaaagga atttggaaga 420  
 aattggcatt tgctgacaaa ttccatatgt gtagcaatat ttttaaattt ctacagccatc 480  
 attttaatat ccaattgcct tgtaattcga cagctctaca gaaacaaaga taatgaaaat 540  
 taccctaaatg tgaaaaaggc tctcatcaac atacttttag tgaccacgg ctacatcata 600  
 tgctttgttc cttaccacat tgtccgaate ccgtataccc tcagccagac agaagtcata 660  
 actgattgct caaccaggat ttcactcttc aaagccaaag aggctacact gctcctggct 720  
 gtgtcgaacc tgtgctttga tcctatcctg tactatcacc tctcaaaagc attccgctca 780  
 aaggtcactg agacttttgc ctcacctaata gagaccaagg ctcagaaaaga aaaattaaga 840  
 tgtgaaaata atgcataaaa gacaggattt tttgtgtctac caattctggg ctttattgga 900  
 ccataaagtc tattatagct tggaagggtta aaaaaaaaaa anaaaaagnn nnnnnnnnnn 960  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1020  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1140  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnccnaat gggncncgcc 1200  
 cctgggttcc gggcccntt taatccccgg gcgggggt 1237

<210> 333  
 <211> 1045  
 <212> DNA  
 <213> Homo sapiens

<400> 333  
 tcgacccacg cgtccgagat gcacgaactg attaatcatc ttgttctagg gctctgagga 60  
 gtgctctact taaccttttg ggttgctgggt cttacctatg tctcacgcc tccatcttct 120  
 caccactca ctcagccttc tccatcttacc ctcccaagtc tttggcgagg tacactcatc 180  
 ctgcgtatca tcaactgccat gtcctgatac ccagctctg ccatattgcc cttctttttt 240  
 gcggtatgat gaccacatag aggcccaacc tcttaaacac atcaatacca atgatcacat 300  
 ttcaatctag acttctaagc aacggctgaa atctctccag gccaaaggag agtttgtatc 360  
 accttaccag aagcttctcc ggaacaattg gccagaagcc tagagttcag aaaccagac 420  
 acatgcagta agcaatttcc agtttctcta taatttagaa gaggacacca tgatatgtaa 480

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| tgcggggtct | ggaggttgga  | atgcctccat  | aaaacæctg  | ccatattttt  | tgggtccaagc | 540  |
| cttagtgtta | taaatacaaga | aggctgtaaa  | taagacttca | gcyttttgtg  | ctgggtgaagt | 600  |
| ttgtttccct | taacttatcc  | tccaagagta  | ccgaggcacc | gagatctacc  | atttgccacc  | 660  |
| tcatccattt | ctatggcaga  | acaccgcctg  | gggagaggaa | ttcgattccc  | cgaatcagga  | 720  |
| tgactgtgtg | gggcttctgc  | aaaggttgca  | tcacgagtc  | tatttctgag  | ctatctgaga  | 780  |
| tccccattaa | gaatttaaaa  | gcaataaaaat | aacggagatt | tttgactatc  | aacatgaatg  | 840  |
| ctgtgtgggc | ttttacagtt  | aatgattgcc  | cttgagtgtc | gaataatctg  | tggcctgaaa  | 900  |
| aaagaaatgt | tcttatcttc  | taaatttggt  | aatcaagaac | aagatagagt  | aatgaatgta  | 960  |
| aaggaacact | gttgcaagtt  | gagtgtttcc  | aaaaaaaaaa | aaaaaaaaaag | ggcggccgct  | 1020 |
| ctagtaggat | accaagtctt  | tacgt       |            |             |             | 1045 |

<210> 334  
 <211> 1223  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 334  |             |             |             |             |             |      |
| gctgctccgt | ttttccccc   | tctttgtggt  | tttatctacc  | tttgggtcttt | gatgatgggtg | 60   |
| atgtacagat | ggggtttttg  | tgtggatgtc  | ctttctgttt  | gttagttttc  | cttctaacag  | 120  |
| tcaggaccgg | cagcttcarg  | tctgtttggag | tttgcctggag | gtccactcca  | gacctcttt   | 180  |
| gcctgggtat | cagcagcaga  | agctgcagaa  | cagcggatat  | tgggtgaacag | cagatgttgc  | 240  |
| tgcctgatcg | ttcctctgga  | agttttgtct  | cggagtagcc  | agccatgtga  | ggtgtcagtc  | 300  |
| taccctact  | gggggatgcc  | tcccagttag  | gctacttggg  | agtcaggagc  | gcacttgagg  | 360  |
| aggcactctg | tctgtttctca | gatgtccagc  | tgtgtgctgg  | tagaaccagt  | gctctyttca  | 420  |
| aggctktcag | acagggacgt  | ttaagtctgc  | agaggattct  | gctgcctttt  | gtttggctgt  | 480  |
| gccctgcccc | ccagaggtgg  | agtctacaga  | ggcaggcagg  | cctccttgaa  | ttgcggtggg  | 540  |
| ctccaccgag | ttcgagtttc  | ctggccgctt  | tgtttacccc  | ctcaagcctc  | ggcaatgggt  | 600  |
| ggcgcccttc | ccccagcctc  | actgcgsc    | tgcagtttga  | tctcagactg  | ctgtgctagc  | 660  |
| aatgaktrag | gctctgtggg  | tgtagracc   | tctgagccag  | gcatgggata  | taatctcctg  | 720  |
| gtgtgcgatt | tgctaagacc  | cattggaaaa  | gcgtagtatt  | agggtagggaa | tgaccaaat   | 780  |
| ttccaggtgc | cgtctgtcac  | ccctttcttt  | gactaggaaa  | gggaattccc  | tgacggttg   | 840  |
| tgcttcccgg | gtgaggcaat  | gcctgcgcct  | gcttcagctc  | aagcttggtg  | cgctgcaccc  | 900  |
| actgtcttgc | accacatttc  | caacactccc  | tagtgagatg  | aaccgggtac  | ctcagttgga  | 960  |
| aatgcagaaa | tcacacgtct  | tctgcgtcct  | cacgctggga  | gctgtagact  | ggagctgttc  | 1020 |
| ctattcgccc | atcttggctc  | cacctgtcga  | gatattttac  | attaactttc  | tatgacatac  | 1080 |
| ttatagcaaa | acttattttt  | tcattgcagaa | tagtctatat  | tctatatatta | ttgtaaagca  | 1140 |
| tataccgtac | atgggtgacta | gtcaccatgc  | tgtacaataa  | attttctgaa  | cttaataaaa  | 1200 |
| aaaaaawaaa | aaagggcggc  | cgc         |             |             |             | 1223 |

<210> 335  
 <211> 1267  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| <400> 335   |            |             |             |            |             |     |
| ggcacgagct  | gcagggggcg | ggcgggcgcca | agcgcaggga  | gcccggctga | gtggcagccc  | 60  |
| agattgaaga  | tggatacgtg | acaatcccag  | ggaccgctgc  | actgacttca | tttccttaga  | 120 |
| caagacacag  | tgtagggæc  | ggcccgtgtt  | ggccccagga  | ctccttttga | atatagctgt  | 180 |
| ggacaatgaa  | tcttgcgagc | gatggggggc  | catcagagag  | catttttgac | ctggactatg  | 240 |
| catcctgggg  | gatccgctcc | acgctgatgg  | tcgctggcct  | tgtcttctac | ttgggcgtct  | 300 |
| ttgtggctctg | ccaccagctg | tccctctccc  | tgaatgccac  | ttaccgttt  | ttgggtggcca | 360 |
| gagagaaggt  | cttctgggac | ctggcgccca  | cgcgtgcagt  | ctttggtgtt | cagagcacag  | 420 |
| ccgcagctgt  | gggctctgct | gggggaccct  | gtgctgcatg  | ccgacaaggc | gcgtggccag  | 480 |
| cagaactggg  | gctggtttca | catcacgaca  | gcaacgggat  | tcttttgctt | tgaaaatgtt  | 540 |
| gcagtccacc  | tgtccaactt | gatcttccgg  | acatttgact  | tgtttctggg | tatccaccat  | 600 |
| ctctttgcct  | ttcttggggt | tcttggctgc  | ttgggtcaatc | tccaagctgg | ccactatcta  | 660 |
| gctatgacca  | cgttgctcct | ggagatgagc  | acgcccttta  | cctgcgtttc | ctggatgctc  | 720 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| ttaaaggcgg | gctggtccga | gtctctgttt | tggaagctca  | acagtggct  | gatgattcac | 780  |
| atgtttcact | gccgcattgt | tctaacctac | cacatgtggt  | gggtgtgttt | ctggcactgg | 840  |
| gacggcctgg | tcagcagcct | gtatctgcct | catttgacac  | tgttccttgt | cggactggct | 900  |
| ctgcttacgc | taatcattaa | tccatattgg | accataaga   | agactcagca | gcttctcaat | 960  |
| ccggtggact | ggaacttcgc | acagccagaa | gccaaagagca | ggccagaagg | caacgggag  | 1020 |
| ctgctgcgga | agaagaggcc | atagctgctc | cagccggggc  | tccggggcgg | cagcagagct | 1080 |
| ggcacaccga | ttctgggaag | ccccgcgaat | gatggctttt  | gaattaatga | ggcagtgaat | 1140 |
| gttttgtgtt | tacttctaag | ggaaatacta | actttcttc   | gcattagtat | taattttgaa | 1200 |
| gtagctacaa | agtattttta | agaaattata | attttatgac  | tgtcaaaaaa | aaaaaaaaaa | 1260 |
| aaaaaa     |            |            |             |            |            | 1267 |

<210> 336

<211> 3194

<212> DNA

<213> Homo sapiens

<400> 336

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| cacctcttc  | cctccccgc  | ttccctgtcg | cgtcccgctg | gctggacgcg | ctggaggagt  | 60   |
| ggagcagcac | ccggccggcc | ctgggggctg | acagtcggca | aagtttggcc | cgaagaggaa  | 120  |
| gtggtctcaa | accccggcag | gtggcgacca | ggccagacca | ggggcgctcg | ctgctgctcg  | 180  |
| gcgggctgta | ggcgaggcg  | cgccccagtg | ccgagaacg  | gggcttcagg | agccggcccc  | 240  |
| gggagagaag | agtgcggcgg | cggacggaga | aaacaactcc | aaagtgtggc | aaaggcaccg  | 300  |
| cccctactcc | cgggctgccg | ccgcctcccc | gccccagcc  | ctggcatcca | gagtacgggt  | 360  |
| cgagcccggg | ccatggagcc | cccctgggga | ggcggcacca | gggagcctgg | gcgcccgggg  | 420  |
| ctccgccgcg | accccatcgg | gtagaccaca | gaagctccgg | gacccttccg | gcacctctgg  | 480  |
| acagcccagg | atgctgttgg | ccaccctcct | cctcctcctc | cttgaggcg  | ctctggccca  | 540  |
| tccagaccgg | attatttttc | caaatcatgc | ttgtgaggac | ccccagcag  | tgctcttaga  | 600  |
| agtgcagggc | accttacaga | ggcccctggt | cgggacagc  | cgcacctccc | ctgccaaactg | 660  |
| cacctggctc | atcctgggca | gcaaggaaca | gactgtcacc | atcaggttcc | agaagctaca  | 720  |
| cctggcctgt | ggctcagagc | gcttaaccct | acgtccccc  | ctccagccac | tgatctccct  | 780  |
| gtgtgaggca | cctcccagcc | ctctgcagct | gcccgggggc | aacgtcacca | tcacttacag  | 840  |
| ctatgctggg | gccagagcac | ccatgggcca | gggcttcctg | ctctcctaca | gccaagattg  | 900  |
| gctgatgtgc | ctgcaggaag | agtttcagtg | cctgaaccac | cgtgtgtat  | ctgctgtcca  | 960  |
| gcgctgtgat | ggggttgatg | cctgtggcga | ttgctgtgat | gaagcaggtt | gcagctcaga  | 1020 |
| ccccttccct | ggcctgaccc | caagaacgt  | cccctccctg | ccttgcaatg | tcaccttgga  | 1080 |
| ggacttctat | ggggtcttct | cctctcctgg | atatacacac | ctagcctcag | tctcccaccc  | 1140 |
| ccagtctctc | cattggctgc | tggaccccc  | tgatggccgg | cggctggccg | tgcgcttcac  | 1200 |
| agccctggac | ttgggctttg | gagatgcagt | gcatgtgtat | gacggccctg | ggccccbga   | 1260 |
| gagctcccga | ctactgcgta | gtctcaccca | cttcagcaat | ggcaaggctg | tcactgtgga  | 1320 |
| gacactgtct | ggccaggctg | ttgtgtccta | ccacacagtt | gcttgaggca | atggctcgtg  | 1380 |
| cttcaatgcc | acctaccatg | tgcggggcta | ttgcttgctt | tgggacagac | cctgtggctt  | 1440 |
| aggctctggc | ctgggagctg | gcgaaggcct | aggtgagcgc | tgctacagtg | aggcacagcg  | 1500 |
| ctgtgacggc | tcatgggact | gtgctgacgg | cacagatgag | gaggactgcc | caggctgccc  | 1560 |
| acctggacac | ttcccctgtg | gggctgctgg | cacctctggt | gccacagcct | gctacctgcc  | 1620 |
| tgctgaccgc | tgcaactacc | agactttctg | tgctgatgga | gcagatgaga | agcgtgtcg   | 1680 |
| gcattgccag | cctggcaatt | tccgatgccg | ggacgagaag | tgctgttatg | agacgtgggt  | 1740 |
| gtgcgatggg | cagccagact | gtgcggacgg | cagtgatgag | tgggactgct | cctatgttct  | 1800 |
| gccccgcctg | gtcattacag | ctgcagtcct | tggcagccta | gtgtgcggcc | tgctcctggt  | 1860 |
| catcgccatg | ggctgcacct | gcaagctcta | tgccattcgc | acccaggagt | acagcatctt  | 1920 |
| tgcccccttc | tcccggatgg | aggctgagat | tgtgcagcag | caggcacccc | cttcctacgg  | 1980 |
| gcagctcatt | gcccagggtg | ccatcccacc | tgtagaagac | tttcctacag | agaatcctaa  | 2040 |
| tgataactca | gtgctgggca | acctgcgttc | tctgctacag | atcttagcc  | aggatatgac  | 2100 |
| tccaggaggt | ggcccagggt | cccgccgtcg | tcagcggggc | cgcttgatgc | gacgcctggg  | 2160 |
| acgccgtctc | cgcgcgtggg | gcttgctccc | tccaaccaac | accccggtc  | gggcctctga  | 2220 |
| ggccagatcc | caggtcacac | cttctgctgc | tccccttgag | gccctagatg | gtggcacagg  | 2280 |
| tccagcccgt | gagggcgggg | cagtgggtgg | gcaagatggg | gagcaggcac | ccccactgcc  | 2340 |
| catcaaggct | cccctcccat | ctgctagcac | gtctccagcc | cccactactg | tccctgaagc  | 2400 |

|            |            |            |              |            |            |      |
|------------|------------|------------|--------------|------------|------------|------|
| cccagggcca | ctgccctcac | tgcccctaga | gccatcacta   | ttgtctggag | tggtgcaggg | 2460 |
| cctgcgaggg | cgcctgttgc | ccagcctggg | gccccaggacca | ccccctgg   |            | 2520 |
| acccacaca  | gcagtcctgg | ccctggaaga | tgaggacgat   | gtgctactgg | tgccactggc | 2580 |
| tgagccgggg | gtgtgggtag | ctgaggcaga | ggatgagcca   | ctgcttacct | gaggggacct | 2640 |
| gggggctcta | ctgaggcctc | tcccctgggg | gctctactca   | tagtggcaca | accttttaga | 2700 |
| ggtgggtcag | cctcccctcc | accacttcct | tccctgtccc   | tggatttcag | ggacttggtg | 2760 |
| ggcctcccgt | tgaccctatg | tagctgctat | aaagttaagt   | gtccctcagg | cagggagagg | 2820 |
| gctcacagag | tctcctctgt | acgtggccat | ggccagacac   | cccagtcctt | tcaccaccac | 2880 |
| ctgctcccca | cgccaccacc | atttgggtgg | ctgttttaaa   | aaagtaaagt | tcttagagga | 2940 |
| tcataggtct | ggacactcca | tccttgccaa | acctctaccc   | aaaagtggcc | ttaagcaccg | 3000 |
| gaatgccaat | taactagaga | ccctccagcc | cccaagggga   | ggatttgggc | agaacctgag | 3060 |
| gttttgccat | ccacaatccc | tcctacaggg | cctggctcac   | aaaaagagtg | caacaaatgc | 3120 |
| ttctattcca | tagctacggc | attgctcagt | aagttgaggt   | caaaaataaa | ggaatcatat | 3180 |
| atctcacctc | gtgc       |            |              |            |            | 3194 |

<210> 337  
 <211> 1258  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1196)..(1196)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1200)..(1200)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1237)..(1237)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 337  |            |             |            |            |             |     |
| nagatggcgc | tacgtctgct | gcggagggcg  | gcgcgcggag | ctgcggcggc | ggcgtctgctg | 60  |
| aggctgaaag | cgtctctagc | agctgatatc  | cccagacttg | gatatagttc | ctcatcccat  | 120 |
| cacaagtaca | tcccccgagg | ggcagtgctt  | tatgtacctg | gaaatgatga | aaagaaaata  | 180 |
| aagaagattc | catccdgaa  | tgtagattgt  | gcagtgtctg | actgtgagga | tggagtggct  | 240 |
| gcaaacaaaa | agaatgaagc | tcgactgaga  | attgtaaaaa | ctcttgaaga | cattgatctg  | 300 |
| ggccctactg | aaaaatgtgt | gagagtcaac  | tcagtttcca | gtggtctggc | ggaagaagac  | 360 |
| ctagagacct | ttttgcaatc | ccgggtcctt  | ccttcagcc  | tgatgcacc  | aaaggtggaa  | 420 |
| agtcctgaag | aaatccagtg | gtttgcagac  | aaattttcat | tccacttaaa | aggccgaaaa  | 480 |
| cttgaacaac | caatgaatth | aatccctttt  | gtggaaactg | caatgggttt | gctcaattht  | 540 |
| aaggcagtg  | gtgaagaaac | cctgaaggtc  | gggcctcaag | taggtctctt | tctagatgca  | 600 |
| gtcgtttttg | gaggagaaga | ctttcgagcc  | agcataggtg | caacaagtag | taaagaaacc  | 660 |
| ctggatattc | tctacgccc  | gcaaaaagatt | gttgtcatag | cgaaagcctt | tggtctccaa  | 720 |
| gccgtagatc | tggtgtacat | tgactttcga  | catggagctg | ggctgcttag | acagtcaaga  | 780 |
| gaaggagccg | ccatgggctt | cactggtaag  | caggtgattc | acctaacca  | aattgccgtg  | 840 |
| gtccaggagc | agttttctcc | ttcccctgaa  | aaaattaagt | gggctgaaga | actgattgct  | 900 |
| gccttttaag | aacatcaaca | attaggaaag  | ggggccttta | ctttccaagg | gagtatgatc  | 960 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gacatgccat | tactgaagca | ggcccagaac | actgttacgc | ttgccacctc | catcaaggaa | 1020 |
| aaatgatctg | ttaaataag  | ctgtcatcag | gctaaaggg  | attgaagctg | cagagggatc | 1080 |
| aacttgtgct | tgccagagga | cgccaatgaa | gtttgaaaca | ccaacaatca | gagattttgt | 1140 |
| ttctgttcct | cattaaatca | tgagcttttg | tgcccagagc | tctggacgga | ctgttncttn | 1200 |
| aggaatttaa | ccggatggga | agttttttta | acttttca   | ccaacttttt | taaggccc   | 1258 |

<210> 338  
 <211> 698  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 338  |            |            |            |            |            |     |
| gtctagttta | tgtttttcca | ctggacaggg | agtccttga  | ggaccttgct | ttgctcgctg | 60  |
| ccccaccct  | aaaacttgct | gtaaagcagt | tcctggaaca | gagcaggtgc | tcagtagtac | 120 |
| tggttgcatg | aatgaatgaa | tgaatgaata | ggttttcctc | ttttagacac | attgggagat | 180 |
| gggcctatgg | tttcctatgc | tcattttgac | ccagagattt | gtgtcctgtg | actcacatcc | 240 |
| agacccaaaa | cacacacata | cacacgcaca | cataaatata | cacacacaca | gacacgtgca | 300 |
| cacacagaca | cacatgcaca | cacacatata | cacacattgg | tttgaagaga | agagggatgg | 360 |
| gaacagacat | tctacgcagt | cctacagtgc | accactgtgc | ataggtaact | gatgctgtat | 420 |
| aagcactcaa | ggattatctc | catttttagc | cagagaaact | gaggcttgct | ttctgctgtg | 480 |
| tctccagtgc | ctagcactgt | gcctggcata | aacatctgct | gaactgaatt | gcactagatt | 540 |
| caagaggctc | agaaaacagt | tcaaggtcac | ccaactagca | agttgtggag | ccagaatctg | 600 |
| tgctcagggc | tgttcagtc  | ccagccagtg | ccgggtagca | gccataggca | cctgcacaaa | 660 |
| ctccagcgac | ctcgtaact  | tccaaacacg | gtctcgta   |            |            | 698 |

<210> 339  
 <211> 996  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (834)..(834)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (996)..(996)  
 <223> n equals a,t,g, or c

|             |             |            |             |                     |            |     |
|-------------|-------------|------------|-------------|---------------------|------------|-----|
| <400> 339   |             |            |             |                     |            |     |
| gaattcggca  | gagggaaatct | gggctctgtg | gaagaatagc  | acttatctgg          | attctggcct | 60  |
| tgtgccatga  | acctaaagca  | catccgtttg | gtctgccagt  | aggctggtat          | ggcatgctgt | 120 |
| aaccctata   | aatattat    | ctatttatcc | tgtcagtg    | gtttcctgta          | acaaatcg   | 180 |
| caagaaactc  | tggtcccttc  | atgaacatat | caagatcg    | catggatatg          | cagaaaagaa | 240 |
| attttcctgt  | gaaatttg    | agaagaatt  | ctataccatg  | gctcatgtgc          | ggaaacacat | 300 |
| ggttgacac   | acaaaagaca  | tgccattaca | tgcgaaacct  | gtggaaaatc          | attcaaagc  | 360 |
| atatgtcact  | caaggtgcac  | tccktgacg  | attctrgaga  | gaagcccttt          | agatgcgaga | 420 |
| actgtgacga  | aaggtttcag  | tacaagtacc | agctacgctc  | ccacatgagc          | attcaattg  | 480 |
| ggcacaaaaca | gttcagtgtg  | cagtgggtg  | gcaaggattt  | caacatgaag          | cagtacttcg | 540 |
| acgaacacat  | gaaaacacac  | actggagaga | aaccttttat  | ctgtgaaatc          | tgtggcaaaa | 600 |
| gcttcaccag  | ccgccccaac  | atgaagagac | accgcagAAC  | tcacacaggc          | gagaagccct | 660 |
| atccatgtga  | tgtgtgtggc  | cagcggttcc | gcttctcgaa  | catgcttaag          | gccacaagg  | 720 |
| agaagtgtt   | tcgggtgacc  | agccccgtg  | aatgtgccac  | ctgctgtcca          | gatcccactt | 780 |
| acaacttccc  | cagccacccc  | agttccttct | gtgggtgaaca | cagccacaac          | ccnaccctc  | 840 |
| caatcaatat  | gaatcctgta  | agcactcttc | ccctcggggc  | atccccaccccttctcaca |            | 900 |
| ccgcacatcc  | accacacccc  | tcaccaccca | caccamcttc  | ccatccctcc          | aktccctcac | 960 |

ctccccccac ctccagctct cttaaagagt gagccn

996

<210> 340

<211> 974

<212> DNA

<213> Homo sapiens

<400> 340

|             |            |             |             |                      |             |     |
|-------------|------------|-------------|-------------|----------------------|-------------|-----|
| caggagtaaa  | gaactttatg | agttcatgag  | aacctaaggc  | tcagtatttg           | aaaattactg  | 60  |
| acttatgaga  | aagcaggcat | gtaaataaaa  | aataaaaaat  | gttgcccta            | gattttgata  | 120 |
| tgtgtgtggt  | gtgtggtgta | ggagaggccc  | tgatatattac | ctgtaagtgt           | tagagttgta  | 180 |
| tgaaaaaggt  | ggcaagattg | agtagcttag  | ggcatgtggt  | gtggaggctgtatgctagag |             | 240 |
| ttttggcatt  | aataacttgt | atthttctggg | ttttggcatt  | aataatttg            | atthttcactc | 300 |
| cccaaattatt | tttcaagcat | ctacttcatg  | ccagaccttg  | ttctagatac           | cggagataca  | 360 |
| acagcaaaaa  | tacagatctt | gcccttatga  | agcttaaatt  | gttgaggcag           | gcagacagt   | 420 |
| ataaataaat  | acatagaatg | ttgggaaaga  | aaataagagg  | atthtgagg            | gtggaatggg  | 480 |
| gaagaaagga  | ttcactgata | agatgccatt  | cgagctaaga  | cctgaaaagg           | tgatctctaa  | 540 |
| ggtgaggaaa  | gagctttcta | cacagaagga  | acagctgggg  | gaagggagca           | cgcttggaat  | 600 |
| atttaaggaa  | tatcaaggag | ggaaaagtgg  | ctagagtaga  | ggaaggaa             | ggaagaagtc  | 660 |
| atgtcaaaca  | ggtactaatg | gaagaagtca  | tgtcagacag  | ggtcttgccc           | attgtaagga  | 720 |
| ctttggcctt  | atacctcagc | aagctgagca  | gccgtcggaa  | tgthtttaagc          | aaaagagtga  | 780 |
| caccatcttt  | aaaagggacc | ccttgtaagg  | attcagaaca  | gacttgagg            | gaaaacaagt  | 840 |
| agaagcagca  | gggggactag | ttaggaggct  | gaggtgggag  | gattgcttg            | gcctgggagg  | 900 |
| ttgaagctgc  | agtgagtc   | gatcactcca  | ctgcactcca  | gcctgggcga           | cagaaggaga  | 960 |
| ccctgtctca  | gaaa       |             |             |                      |             | 974 |

<210> 341

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (248)..(248)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (328)..(328)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (357)..(357)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (372)..(372)

<223> n equals a,t,g, or c

<400> 341

```

nggccccattc gctgtttgggt cttctgctag ggaggatgtc gggttcgtcg ctgcccaggg      60
ccctggccct ctcgctgttg ctggtctctg gctccctcct cccagggcca ggcgccgctc      120
agaacgtgaa gagtacaatc tggacaggat cagaagtaga gaatgaagtt gtaaagagaa      180
aggggaaaga cagaagaaag gctgcagtag tacaaggaga aaagcaggat gcaagattga      240
aggaatgnaa tctttgtttg aggagcattc cggaaaatta taagctgttc agaaagggtt      300
aattagacca gggacctttt aagttaantt cactactcaa gttaaaataa tgttgngat      360
tactctctgt gnaaaattgg gttagttttc atttgccctt ttaaacaaaa ctt      413

```

```

<210> 342
<211> 1010
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (607)..(607)
<223> n equals a,t,g, or c

```

```

<400> 342
ggttacttcc aagtctctgcc aactgtgaat aaagttgcta taaacatcta tgtacagggt      60
ttttttgtgt gtggacctaa gttttcaact cctttgggtg ataccaagga gcacagtcac      120
tgggacatat ggtaaggata tathtagttt ggcaggaaac caccatactg tcttccaaag      180
tagctgtacc attttgcata cccaccagca ctgaatgaga gttcctgttg ctccacattc      240
ttgtcagcat ttgatgttgt cagtgttctg aatttaggta gtcattgatg gtgtgtaatg      300
gtatctcact attattttta tttgcctttc tctgatgatg tatgatgttg cagatcttct      360
catatgctta tgtgacatct gtatatctgg tgaaatgtct gctaaggctc tascctatct      420
tttaatargg atggttggtt tcccatgtgt gagttttaag agttccttat atatttttga      480
tatttaaata tactacaaat aaacagtcct ttaacagata aatgttttgc aaatattttc      540
tcttagtctg tggcttctgt ctttattccc ttgaagggtg ctgtcacaaa gagtttatc      600
tttttttctt tttttttttt tttgagacgt agtcttgctc cagcctgggt ggcagagcga      660
rctacgtctc aagaaacaaa acaaaacaaa aaaacacctc agttgcgcgg caaggtkgct      720
cacgcctgtg atcccatcac tttgggaggt cggaggtggg aggtgggaga atcgcttgag      780
gccaggagtc catcctaggt ctagcttgac cctatctcaa caacaaaaaa ataacaatta      840
gccaccgtg gtatgtcatg tctgtagtcc tagctactgg ggaggctgag gtgagaggat      900
tgcttgagcc catgagtttg aggttacagt gggctataat tacaccactg cactccagtc      960
tgagtgcacg agcaagaccg tgtctcaaaa aaaaaaaaaa aaaactgag      1010

```

```

<210> 343
<211> 1337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (22)..(22)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1318)..(1318)
<223> n equals a,t,g, or c

```

```

<400> 343
cggggcttcg ggcgccaggcc angcgctagt cggctctggt aggatttaca aaaggtgcag      60
gtatgagcag gtctgaagac taacattttg tgaagttgta aaacagaaaa cctgttagaa      120
atgtggtggg ttcagcaagg cctcagtttc cttccttcag cccttgtaat ttggacatct      180
gctgctttca tattttcata cattactgca gtaacactccaccatataga cccggcttta      240

```



|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| ccttatatca  | gtgacactgg  | tacagtagct | ccagaaaaat | gcttatttgg | ggcaatgcta  | 300  |
| aatattgcgg  | cagttttatg  | cattgctacc | atztatgttc | gttataagca | agttcatgct  | 360  |
| ctgagtcctg  | aagagaacgt  | tatcatcaaa | ttaaacaagg | ctggccttgt | acttgggaata | 420  |
| ctgagttggt  | taggactttc  | tattgtggca | aacttccaga | aaacaaccct | ttttgctgca  | 480  |
| catgtaagtg  | gagctgtgct  | tacctttggt | atgggctcat | tatatatggt | tgttcagacc  | 540  |
| atcctttcct  | accaaatgca  | gccccaaatc | catggcaaac | aagtcttctg | gatcagactg  | 600  |
| ttgtttggtta | tctggtgtgg  | agtaagtgca | cttgcacatg | tgacttgctc | atcagttttg  | 660  |
| cacagtggca  | attttgggac  | tgatttagaa | cagaaactcc | attggaaccc | cgaggacaaa  | 720  |
| ggttatgtgc  | ttcacatgat  | cactactgca | gcagaatggt | ctatgtcatt | ttccttcttt  | 780  |
| ggttttttcc  | tgacttacat  | tcgtgatttt | cagaaaaatt | ctttacgggt | ggaagccaat  | 840  |
| ttacatggat  | taaccctcta  | tgacactgca | ccttgcccta | ttaacaatga | acgaacacgg  | 900  |
| ctactttcca  | gagatatttg  | atgaaaggat | aaaatatttc | tgtaatgatt | atgattctca  | 960  |
| gggattgggg  | aaaggttcac  | agaagttgct | tattcttctc | tgaaattttc | aaccacttaa  | 1020 |
| tcaaggctga  | cagtaacact  | gatgaatgd  | gataatcagg | aaacatgaaa | gaagccattt  | 1080 |
| gatagattat  | tctaaaggat  | atcatcaaga | agactattaa | aaacacctat | gcctatactt  | 1140 |
| ttttatctca  | gaaaataaaag | tcraaagact | atgawawmaw | agttttttat | accttattta  | 1200 |
| agagaaacaa  | cctgacgtgc  | accawtcagt | ctgcacatcc | caacccttca | cattttataa  | 1260 |
| attattgtag  | atcatgtttt  | gttaggagcc | cttttatgga | gaggacattt | tcccatgnct  | 1320 |
| taagtaatcc  | agccttt     |            |            |            |             | 1337 |

<210> 344  
 <211> 1420  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 344  |            |            |            |            |            |      |
| ggcacgagca | caagctcaag | aggccgcttg | cacgcatgtg | gacactccat | gattctgctt | 60   |
| ctatctctct | ttcagggcgt | gcgaggcagc | ctgggctccc | ctggaaatcg | ggaaaacaag | 120  |
| gagaagaagg | tcttcatcag | cctggtaggg | tcccgaggcc | ttggctgcag | catttccagc | 180  |
| ggccccatcc | agaagcctgg | catctttatc | agccatgtga | aacctggctc | cctgtctgtc | 240  |
| gaggtgggat | tggagatagg | ggaccagatt | gtcgaagtca | atggcgtcga | cttctctaac | 300  |
| ctggatcaca | aggagctgca | gctggccggg | agctgttcat | gacagaccgg | gagcggctgg | 360  |
| cagaggcgcg | gcagcgtgag | ctgcagcggc | aggagcttct | catgcagaag | cggctggcga | 420  |
| tggagtccaa | caagatcctc | caggagcagc | aggagatgga | gcggcaaagg | agaaaagaaa | 480  |
| ttgcccagaa | ggcagcagag | gaaaatgaga | gataccggaa | ggagatggaa | cagattgtag | 540  |
| aggaggaaga | gaagtttaag | aagcaatggg | aagaagactg | gggctcaaag | gaacagctac | 600  |
| tcttgccata | aaccatcact | gctgaggtac | accagtagcc | ccttcgcaag | ccaagtatg  | 660  |
| atcagggagt | ggaacctgag | ctcgagcccg | cagatgacct | ggatggaggc | acggaggagc | 720  |
| agggagagca | ggatttccgg | aaatatgagg | aaggctttga | cccctactct | atgttcaccc | 780  |
| cagagcagat | catggggaag | gatgtccggc | tcctacgcat | caagaaggag | ggatccttag | 840  |
| acctggccct | ggaaggcggg | gtggactccc | ccattgggaa | ggtggttggt | tctgctgtgt | 900  |
| atgagcgggg | agctgctgag | cggcatggtg | gcattgtgaa | aggggacgag | atcatggcaa | 960  |
| tcaacggcaa | gattgtgaca | gactacaccc | tggtgaggc  | tgacgctgcc | ctgcagaagg | 1020 |
| cctggaatca | gggcggggac | tggatcgacc | ttgtggttgc | cgtctgccc  | ccaaaggagt | 1080 |
| atgacgatga | gctgaccttc | ttctgaagtc | caaaagggga | aaccaaattc | accgttagga | 1140 |
| aacagtgagc | tccggcccca | cctcgtgaac | acaaagcctc | ggaccagcct | tgagagaggc | 1200 |
| cacactattc | ctttcctctg | gcccagtgaa | tttggtctct | cccagctctg | ggggactcct | 1260 |
| tccttgaacc | ctaataagac | cccactggag | tctctctctc | tccatccctc | tcctctgccc | 1320 |
| tctgctctaa | ttgctgccag | gattgtcact | ccaaacctta | ctctgagctc | attaataaaa | 1380 |
| taaacagatt | tattttccag | cttaaaaaaa | aaaaaaaaaa |            |            | 1420 |

<210> 345  
 <211> 1674  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1663)..(1663)  
 <223> n equals a,t,g, or c

```
<400> 345
cccgagcagc tgagtcacctt ccctgtcttt cactcttctg gcacgcgttg ttttactttct 60
tcgattgaac cctgcttctt cgacccccct gggaggccgc cttcttcagg cgcctccctt 120
ctctccacga gctcgtcttg acagctgagg aactggcaag atcctgctac ccagaggggtg 180
aatgggtatc tttcccgga taatcctaatt ttttctaagg gtgaagtttg caacggcgggc 240
cgtgattgta agcggagtaa gcaaacacct ccattgtatt agtcaccaga aaagtaccac 300
tgtaagtcat gagatgtctg gtctgaattg gaaaccttt gtatatggcg gccttgccctc 360
tatcgtggct gagtttggga ctttccctgt ggaccttacc aaaacacgac ttcaggttca 420
aggccaaagc attgatgccc gtttcaaaga gataaaatat agagggatgt tccatgcgct 480
gtttcgcata tgtaaagagg aagggtgtatt ggctctctat tcaggaattg ctctgcgctt 540
gctaagacaa gcatcatatg gcaccattaa aattgggatt taccaaagct tgaagcgctt 600
attcgtagaa cgtttagaag atgaaactct ttttaattaat atgatctgtg gggtagtgct 660
aggagtgata tcttccacta tagccaatcc caccgatgtt ctaaagattc gaatgcaggc 720
tcaaggaagc ttgttccaag ggagcatgat tgaagcttt atcgatatat accaacaaga 780
aggcaccagg ggtctgtgga ggggtgtggt tccaactgct cagcgtgctg ccacgttgt 840
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ggcgatatac attttaactc acttcgtttc cagctttaca tgtgggttgg ctggggctct 960
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acatgtggat ctctataagg gcaactgttg tggattttta aagatgtgga aacatgaggg 1080
cttttttgca ctctataaag gattttggcc aaactggctt cggcttggac cctggaacat 1140
catttttttt attacatacg agcagdaaaa gaggttcaa atctaagaac tgaattatat 1200
gtgagcccag ccctgccagc ctttctactc ctttgcctt tccccgtgtt ctaatgtatt 1260
ttgacaatgt tgtaagtgtt taccaagccg ttggtctcct aagggcctcc tgatggaaga 1320
acagtggggg ggttcaaagt tatttctatg tttgtgttac catgttaact tttcccgag 1380
agaaagtgtt aacattgaga ctctggcccc agattggtat cttctatgaa gatggatact 1440
gatgggtgac attgaaaacg gcctgctttc caaatgtggt taaatgtaat tggtagccc 1500
cagacttggg ctagagcaga aggcattaggc cagggtgggt attgctatat gtgttacaga 1560
cctcggttct cattaaagta tttattggca gaatcaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaactcgagg gggggcccgg tacccaattc gccctatggt gantcgaatg ggct 1674
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<210> 346  
 <211> 921  
 <212> DNA  
 <213> Homo sapiens

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<400> 346
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ccagggaaga acttgaagag caaaatacac tcttgagttt gttgggtttt gggagagggtg 120
acagtagaga aggggggttg gttttaaata aacacagtgg cttgagcagg ggcagagggtt 180
gtgatgctat ttctgttgac tcctagcagc catcaccagc atgaatgtgt tcgtagggcc 240
tttgagtgtg gcgattgtca tattctgttg gataacaatg tattgggtgt cgattgtcat 300
ggggcagggg agagggcagt acacctggag gaccttttg tccacatcga caccatcagt 360
ctgctcttag aggatgccct ggagtattcg gcgttgattg cggggcaccg gaaatcagac 420
ttgccacctg gactgtcgag gtgcagaccc tgggagcacc actggcccat tcttacaca 480
ggctgaccga tttctccttg tgttcagagc ctgtttttgt ctagcaccat ttgaaatcgg 540
ttatgatgta gggggaaaag cagcagcctc gaagcctcat gccaaactctg ggcagcagca 600
gcctgtgggt tcctggaaga tggatgggca gagaataggg aagggaagatc atgcttttcc 660
ctactaactt ctgtaactgc atgtatgata cattattgca gaggttaagag atagttaaat 720
ggatttttta aaacaaatta ctataattta tctgatgttc tctagtgtga ttttgctgaa 780
atgtagtgtc gttctaaatt ctgtaaattg attgctgttg aattatcttt ctgttgagaa 840
gagtctattc atgcatactg accttaataa atactatgtt cagttaaaaa aaaaaaaaaa 900
aaaaaaaaaa agggcgcccg c 921
```

<210> 347  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 347  
 ccgggttgac ccacgcgtcc gcggacgcgt gggcaaatat tggtaatgct gggaaaaggg 60  
 agttcagaat gccaaaacgt ttctgggtttt atttgtcttg ggtgaggacc cagaggggtg 120  
 ggagatggag gtgtgagcag catggtctgt tgtgggtttt tcttggttg gagtagagtt 180  
 agatcataca tgaagctctc tgggcatagg tggagtagca gctgtccaca ccattgctat 240  
 tcaaagtgtg gtttgacac cagtaatgga aaatcatctg tgcacatgt ttagtttaac 300  
 tgatactttt tttttcatag caagatttct taatgaagga agtaatgtat tgatttacat 360  
 tctgactcat tgtctttatc ttgtctttga tcagtttgta gactggcact ggtccacact 420  
 ttgaataaca ctattcttca ttctactttc catgtaccgc gatgccaggc aaacagggag 480  
 ttttacgctg ggtggagaac ggaacattct gctgactcct tgaaagggct tatctacca 540  
 ggcatggtag ctcacgactg taatcccagc tctttgggag gctgaggtgg gaggattgct 600  
 tgagctcagg agtttgagac cagcctgggt aacataggga taccttgctc ctacttaaaa 660  
 aaaaaaaaaa aaaaattagc tgggtgtggt tgtgcacacctgtagttcca gctattccar 720  
 aggctgaggc aggaggatag gttgagcatg ggargttgag gctgcartgt gccttgatgg 780  
 cgccactgca ctccatcctg gttgacaaaa aaaaaaaaaa aa 822

<210> 348  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

<400> 348  
 ggcagagggtg acaagccccg ccaagacaga cctgcaagtc ttctgtctcaa gggacctccc 60  
 tcatgccagg cccctgcctc tcacagcagc acccttttct ctcatgttcc ctgttccctt 120  
 tttgcctgtg gatctgtttg gccaggggtcc ctgggggtcag gaatatattgc aagactcagc 180  
 cagctccttc ccagcccagc ctcttggggc tgggaactttctcaccctgcg gcaggcacaa 240  
 cagatgctgg gacccagtct ctgcccaggt cacagcacia gtgcacatca gcactatggg 300  
 gcctatgtcc tgcccagaga cctctgtctc ttctgtctca catccacagt tcagggcacg 360  
 gcgccccca agaactccag agtcacctgt ctcatcggt cccagcaagt gcctctttgt 420  
 ctatgatgtc ccccttctct gaggcctgga cccaccatc tttgtccctg gggcctgtct 480  
 ccagccactg aggcccgctc tggccagggg agaaggagct gccgtgcgtc ttccctgtgc 540  
 cccgtctccc tgcttggttc tccccctccc tccctggccg gctgccatgg ccaggagcta 600  
 agtgcccttt tgtgtgcaac cacttaccct ttcttgaaa aacctgttct caggaaggat 660  
 ctgataaact catttactct yaaaaaaaaa aaaaaaaaaa aaaaaa 706

<210> 349  
 <211> 1726  
 <212> DNA  
 <213> Homo sapiens

<400> 349  
 cgtctgatta aggtaccttt tgggaaatta aggttctata gaaattactg ggctcaatct 60  
 agtgatacaa atatgtgttg tttgatttat caacacatta caaaccttaa ctttgagatt 120  
 ttaatatctg gttatcttta atatctggtt atcttctttc tgaagtgtat gtacacaaaa 180  
 ttgatgctaa ataaggtctt gttgttttgg caaatagtga aatgcaagggt attggtagat 240  
 cagtactgtt ataacttttg tgcaaagttg ctgatgcag attggctgtg ggaccttggt 300  
 cattttttga gaactaatgt agagtttgaa aaaacaccgt aagcctgcat tccagaagtt 360  
 ctggtatgga tagtgtgagc ccagggaatg tgcttagata aaagatcatt taacaaatag 420  
 gttttgcatt tttttagcaa tcaggctttg tgctgaatat tagagtgggt gtttcagaga 480  
 gtttgagca attaggtctt attggtgcac taaggagaag cagagaggag aagcaattct 540  
 tggtaacttc cttggaagtt gcagctaact ctgaaaagtc tgggttgaa taggtaagta 600  
 actaatcct agaatcaata aactttgcag gagtccgttt gattgtacat gtagctccct 660

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| ggaattgcta  | ttgggtcccta | aatcatcag  | ttgtaatgct | ggttttcaaa | cttgagtgca | 720  |
| catcaagttt  | tggaggactt  | gttagaatac | agattgctgg | gctcaccccc | agagtttctg | 780  |
| atctggtagg  | tctggagcgg  | gacctggtag | attgcatttc | taaaaagcat | ccaggtaata | 840  |
| ctgctgctgt  | ttgggaaagt  | acctttgaga | tactgggctt | acagcaatct | caagggtgtt | 900  |
| ggattttggg  | caggggtgct  | gtgcaggcgt | tgtggggtc  | tcttcacagc | actccactgc | 960  |
| atagaggtga  | gcctccagat  | gttttcattc | attcaacaaa | tatatgtacc | tattgtgtgc | 1020 |
| tgggcaactgc | ttaagttgcg  | aggggatatt | gtgaagaaag | taagcaaaac | ccctttgttt | 1080 |
| gtagaatttc  | agttagcata  | gtctgggtt  | aacctgacaa | cagtcctact | gtttattgat | 1140 |
| gcttataggt  | gagcctattt  | ctctttctag | ctttcttcca | cttaatttac | tttcttttgg | 1200 |
| aattcttgaa  | tttaataata  | ataatattga | tgttattagt | catcactata | actttttatt | 1260 |
| gagtatgtat  | tttatgtcag  | acacagtgtg | gctaagtgtc | ttacatacat | tattcatct  | 1320 |
| aatccttaga  | aaaaaccctg  | gtgtattagt | cttaatttaa | aagatgtact | ttggaaaagg | 1380 |
| tagtagttta  | cccaagatta  | tgcagctagt | taaaagtgg  | gctggggctg | ggcttggtgg | 1440 |
| ctcacacctg  | taatcgagct  | gctttgggag | tctgaggcag | gaggatcgct | tgacaccagg | 1500 |
| agtttgagac  | taacctggga  | aacatagcaa | gaccccatct | ttacaaaaaa | taaaaaaatt | 1560 |
| agccaggagt  | gggggtgcac  | acctgtggtc | ccagctactt | gggaggctga | ggcaggagga | 1620 |
| ttgcttgagc  | cccagagggt  | gaggctgcag | tgagccatga | ttatgccact | gcacatctgt | 1680 |
| ctgggtgaca  | gagcaagatc  | ctgtctccaa | aaaaaaaaaa | aaaaaa     |            | 1726 |

<210> 350  
 <211> 1283  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (341)..(341)  
 <223> n equals a,t,g, or c

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 350   |             |             |            |             |             |      |
| gaattcaaag  | tttaccaaat  | gtgcaaaatg  | agcagtttta | ccttaggatt  | attattttta  | 60   |
| tttatattta  | ctactgcaga  | aaattattttg | attctttttc | agagaaaata  | ctgtttgggt  | 120  |
| atattttggg  | gggagttttg  | aatttcacat  | acgaaagaaa | taacacagcc  | ctttcaaact  | 180  |
| gcctgtgttt  | caacctgcaa  | agtttttttt  | gtgctaaaga | tttgagcttt  | gtgaaggatt  | 240  |
| ccctttttgt  | tccttcttct  | ccagcaatct  | cagctacctg | ggcgtcctg   | ctaattgatt  | 300  |
| ctggggttcc  | gtgccagggg  | tcggcaggac  | aagtgtttca | nttgaagctt  | catttggttt  | 360  |
| ggagtctctt  | cctcytctga  | gccwacaaag  | ctcgggtcca | cgggtactct  | gscaaaattc  | 420  |
| atcatcttag  | ttaggcattt  | ggcagaatag  | gtgaggcagg | gatgaatctt  | taacaaatgt  | 480  |
| taatgttgct  | ttgctgggaa  | tgtgcagagg  | ggcatccaag | atgagcacac  | atttaaaagt  | 540  |
| aaacacatga  | ataagtggca  | gtagaattta  | ttttgcaact | ctgagtgcata | cagtgtctac  | 600  |
| tgaattcagt  | gtattccacg  | ttcttattac  | aactaaagac | tgggtagaac  | ggacttctct  | 660  |
| taactatgca  | aagggaataa  | ccaagacaag  | attccgcagg | ctgctgggtga | aaaggggtgt  | 720  |
| tatcatgcag  | atgtcatcct  | aacagattag  | cagagggaag | tggaaatgtt  | cgaggatgtt  | 780  |
| caatgccmcc  | ttgttggttw  | trgcaaaamcc | actggaaaca | mcacaggagt  | ctaaaaatag  | 840  |
| aggcctggta  | gggaaaatgg  | tacagctacg  | gaatgcaata | ctattgaagc  | attagaamca  | 900  |
| atgagcttct  | gacagcccca  | gagagttatt  | cataatgtgt | agttaattta  | aaaaagaaaag | 960  |
| tcgagagtca  | gactctacaa  | gggcataata  | cgccattttg | gtaaagaaaa  | tgtgtatgta  | 1020 |
| gatatgtaaa  | tagattttgga | tacgaattat  | tgtatatacg | aaggaagagt  | gccaaagcct  | 1080 |
| acataccacg  | cttttaatat  | tttttaattct | tcgtatttaa | agaaagattg  | agggagatgg  | 1140 |
| gattttctgtt | tttattttat  | acaaatctgc  | attgtttgaa | tttttttttt  | ttttacgaca  | 1200 |
| agctgtttatt | tctctgggga  | gtttaaaaaa  | aatacaaaaa | aaaggggaatt | cgatatcaag  | 1260 |
| cttatcgata  | ccgtcgacct  | cga         |            |             |             | 1283 |

<210> 351  
 <211> 1552  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1035)..(1035)  
 <223> n equals a,t,g, or c

<400> 351  
 ttgcctaagg cccactgtgc caaattagat aatacaagaa gttcattttac actgtagacc 60  
 agtgacgtca atgactgttt gctctgtg accgtttcaa aaatccaaaa tgcagacttt 120  
 tctctgtgcc atgcaggatg cagctgtgtg tgatatggtt tacagtaata tttctttctc 180  
 aaagtagcag gcttggttaag gaaaagataa gcaacacatc tggggaaaaag ggcagggtggc 240  
 cagcaatcga tgtggtagct ctttgcccct ctgggacagc aggaattagc ttccccaggc 300  
 attttctgta tgtgagttgt attgtgggat gtacaaatat catctgttcc tttgggtttc 360  
 caggccagta gctctctatt ttgggttcaa acatgggttc tcaggccggg cgcggtggct 420  
 cacgcgtgta atcccggcac tttgggaggc caaggcgggc ggatcacgag gtcgggagat 480  
 ggagaccatc ctggctaaca tgggaaacc ccaactctac taaaaatata aaaaattagg 540  
 caggcatggt ggcgggtgcc tgtgktcccg gctactcagg aggtgaggc aggagaatgg 600  
 tgtggaccgg ggagggttga ggttgacagta agccgagatt gcaccactgc mctccagcct 660  
 gggcaacaga gcgagactcc atctcaaaaa acaaacaaac aaacaaacaa aaattgggt 720  
 tctcaaaagg catgccact gtctcccatg gagcttgaca gcccatgcca ttagctctca 780  
 ctgttaggtt tctggggaag gttcttctac ttgattggaa aatttccaaa taaatctttc 840  
 cagaagatac tatgcacaca gctaagtggc ctgtctgtgg agtaaccctt ttgtaaacia 900  
 acagaaacct aaagcttgat gttttggggg gctgcctgtc atctataggt tcatttaggt 960  
 gtatttagga agaggatcca tgaaaccact ggtttctctg tacataataa tcattaataa 1020  
 tgatttaaaa tgtgnacatt gatTTTTTtr aattccraaa tacaagcgta tatggtawat 1080  
 taagtcaaat ggtatgttca gtgagcgaga tggggcttgg ggcaaaaca tactttgctt 1140  
 ccaaagagga tacaactctc aaggagattc ttcatcttgg cctttaaggt catttaaac 1200  
 aattcacata atcttcagaa aactaattca catcatctat tcatgtgtaa aatcaaaagg 1260  
 aagactgttt tcttagtctc tcgttgccca actggccatt tatactacta ggttgattaa 1320  
 gggatttgcc tttttctgct gatatgggaa caaaaagtct taagcatttt taaaggcaat 1380  
 ggaaaattca gccacatggg ggaaaattga tattgtcacc attgagttgc tctgtttctt 1440  
 ggtgaagagt gaatctaate tgatttccct cttcatcaga tatgcctctt taacaacaaa 1500  
 aaaaaaaaaa aaggaattcg atatcaagct tatcgatacc gtgacctcg ta 1552

<210> 352  
 <211> 1563  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 352  
 aattcggcac gancagaaa cctgcggaaa atggtagcga tggcggtgg gccgagtggg 60  
 tgtctgtgct cggcgtttgg gctacggttg ttggttgcca ctgtgcttca agcgggtgct 120  
 gcttttgggg cagagttttc atcggaggca tgcagagagt taggcttttc tagcaacttg 180  
 ctttgacgct cttgtgatct tctcggacag ttcaacctgc ttcagctgga tctgtattgc 240  
 agaggatgct gtcaggagga agcacaattt gaaacaaaaa gctgtatgc aggagctatt 300  
 cttgaagttt gtggatgaaa attgggaagg ttccctcaag tccaagcttt tgtaggagt 360  
 gataaaccca aactgttcag aggactgcaa atcaagtatg tccgtgggtc agaccctgta 420  
 ttaaagcttt tggacgacaa tgggaacatt gctgaagaac tgagcattct caaatggaac 480  
 acagacagtg tagaagaatt cctgagtga aagttggaac gcatataaat cttgcttaaa 540  
 ttttgtccta tcttttgggt accttatcaa atgaaatatt acagcaccta gaaaataatt 600  
 tagttttgct tgcttccatt gatcagttt ttacttgagg cattaaatat ctaattaaat 660  
 cgtgaaatgg cagtatagtc catgatattc aaggaattgg caagcttaac aaaaccatt 720

|              |             |            |             |            |            |      |
|--------------|-------------|------------|-------------|------------|------------|------|
| ttttataaat   | gtccatcctc  | ctgcatttgt | tgataccact  | aacaaaatgc | tttgtaacag | 780  |
| acttgcggtt   | aattatgcaa  | atgatagttt | gtgataattg  | gtccagtttt | acgaacaaca | 840  |
| gattttctaaa  | ttagagaggt  | taacaagaca | gatgattact  | atgcctcatg | tgctgtgtgc | 900  |
| tctttgaaag   | gaatgacagc  | agactacaaa | gcaaataaga  | tatactgagc | ctcaacagat | 960  |
| tgccctgctcc  | tcagagtctc  | tcctattttt | gtattaccca  | gctttctttt | taatacaaat | 1020 |
| gttattttata  | gtttacaatg  | aatgcactgc | ataaaaaactt | tgtagcttca | ttattgtaaa | 1080 |
| acatatattcaa | gatcctacag  | taagagtga  | acattcacaa  | agatttgcgt | taatgaagac | 1140 |
| tacacagaaa   | acctttctag  | ggatttgtgt | ggatcagata  | catacttggc | aaatttttga | 1200 |
| gtttttacatt  | cttacagaaa  | agtccattta | aaagtgatca  | tttgtaagac | caaaatataa | 1260 |
| ataaaaaagt   | tcaaaaaatct | atctgaattt | ggaattcttc  | tggtttgttc | tttcatgttt | 1320 |
| aaaaatgatg   | tttttcaatg  | catttttttc | atgtaagccc  | tttttttagc | caaaatgtaa | 1380 |
| aaatggctgt   | aatattttaaa | acttataaca | tcttattgtt  | ggtaatagt  | ctttatattt | 1440 |
| gtctgatttt   | atttttcaaa  | gttttttcat | ttatgaacac  | attttcattg | gtatattatt | 1500 |
| taaggaatat   | ctcttgatat  | agaattttta | tattaaaaat  | gatttttctt | tgcttaaaaa | 1560 |
| aaa          |             |            |             |            |            | 1563 |

<210> 353  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (230)..(230)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (755)..(755)  
 <223> n equals a,t,g, or c

|            |   |
|------------|---|
| <400> 353  |   |
| gaattccaat | gtccacaggt gatgggagag atgctgagaa aggggtggcca gtgagtgagg 60  |
| aggaaaacca | gaggagtgtg tatcctgggt accctgaatg tgatgagcga caagctgtcc 120  |
| cccagcactg | tgccattgct tctcccagtt ctcttcaaaag tcaccatcct gcttcagcgt 180 |
| gtgtgcccag | aagatagccc ttctcttctt gtgcttccag aatccgtagn cagggaatag 240  |
| gaatacatgg | acaagtagca tgcagtgcag tgagaatgta taacaacaga tgactctggg 300  |
| gacccaaatc | aaatggggcc agctacaaag agggcaggaa atccccacaggtgattttac 360   |
| tgtgaggaat | tttatgaggt tcagcatcat atattgttag gagaaaatgc tgttttgata 420  |
| agcagagata | tgagaaaagt aaacgggaac tatgatttag agatctcatc tgrttacttt 480  |
| gtcctattcy | cagtttwatt actaaagagc agtaaagcca aggagaaagt agtaaagatt 540  |
| agatgaatgg | ttagcatgtg aaacctgaaa ggaaccagag tgatttccct cgaggaacaa 600  |
| atgcacttct | cttacatatg aaagatgatg tgttctgtgt tcccatagaa tctagggaaa 660  |
| gaaaaagtga | gcagatactc tgatatgagc aatataactt aggtgtaaaa aaaaaaggaa 720  |
| ttcgatatca | agcttatcga taccgtcgac ctcgna 756                            |

<210> 354  
 <211> 1402  
 <212> DNA  
 <213> Homo sapiens

|            |   |
|------------|---|
| <400> 354  |   |
| ccagtgtcgg | tctatccaaa aaatgtacta acagatatgt aaacctgat gaatacagta 60    |
| tgtgttatga | gaagtggccc aacgaagcag ctcatccaag tgagattctg aagttgggct 120  |
| ggcgagtaca | cgaaatggctt tcttactaga gagaagtggg accctgctaa tctgtagcat 180 |
| gtggtggcat | catggttact caaatatcac tggaaacagaa ggtgaaagaa gaaatctgaa 240 |
| gagaaataaa | acaaattttc ggcggttcca agatggccga ataggaacag ctccagtcta 300  |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| cagctcccag  | tgtgagagat | gcagaagatg | ggtgatttct | gcattccaa  | ctgagcaaac  | 360  |
| ggcacaccag  | aagattatat | cccatgcctg | gctgggaggg | tcccatgccc | acggagcctc  | 420  |
| gctcattgct  | agcacagcag | tctgagatcc | atctgcaagg | tggcagtga  | gctgggggag  | 480  |
| gggcacccac  | cattgctgag | gcttgagtag | gtaaacgaag | cagccaggaa | gctcgaactg  | 540  |
| ggtggagccc  | accgcagctc | aaggaggcct | gcctacctct | gtagactcca | cctctcgggg  | 600  |
| cagggcatag  | ccaaacaaaa | ggcagcagaa | acctctgcag | acttaaagt  | ccctgtctga  | 660  |
| cagctttgaa  | gtgagtagtg | gatctcccag | cacggagttt | gagatctgag | aacggacaga  | 720  |
| ctgccccctc  | aagtgggtcc | ctgacccttg | agtagccta  | ctgggaggca | ccctccagta  | 780  |
| ggggcagact  | gacacctcac | acagctgggt | acccctctga | gatgaagctt | ccagagggaac | 840  |
| aatcaggcag  | caacatttgc | tgttcagcaa | tatttgctgt | tctgcagcct | ctgctgctga  | 900  |
| taccagggca  | aacagggtct | gcagtggacc | tccagcaaac | tccaacagac | tggcagctaa  | 960  |
| gggtcctgac  | tgtagaaga  | aaactaacia | acagaaaagg | catccacacc | aaaaccccat  | 1020 |
| ctgtaagtca  | ccatcatcaa | agaccaaagg | tagataaaac | cacaaagatg | gggaaaaaac  | 1080 |
| agagcagaaa  | agctgaaaac | tctaaaaatc | agagcacctc | tccccctcca | aaggaacaca  | 1140 |
| gctcctcgcc  | agcaacggaa | caaagctgga | tggagaatga | ctttgacgag | ttgagagaag  | 1200 |
| aaggcttcag  | aagatcaaac | ttctccaagc | taaaggagga | agttcgaacc | catcgcaaac  | 1260 |
| aagctaaaaa  | ccctgaaaaa | agattagacg | aatggctaac | tagaataacc | aatatagaga  | 1320 |
| agtccttaaa  | tgacctgatg | gagctgaaaa | acatggcgcg | agaactacat | gacaaatgca  | 1380 |
| caagcttattc | gataccgtcg | ac         |            |            |             | 1402 |

<210> 355  
 <211> 2270  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| <400> 355   |             |             |            |            |             |      |
| tttttttttt  | aactttttta  | acaatccatt  | ttaatcatct | aaattattta | caatacaata  | 60   |
| acatggattc  | atccttttta  | agacatggga  | tgtaaaaat  | caacaagtga | atgatgcttc  | 120  |
| aaataatata  | tttaaataca  | ttaatcaa    | tttttcagtg | cttaaaactt | tttctccatg  | 180  |
| ggacagcagg  | ctctggacaa  | aagtgcctag  | catacaagtt | ttcccaattt | ccttctatca  | 240  |
| taccagctgc  | acataaaaaa  | gttcatcacc  | tcctgtctcc | aaagtgtctc | cctactgagt  | 300  |
| gttcccaggc  | agacaatagt  | tcctgggata  | gtgctgtttg | gtaacagaaa | agcccaagcg  | 360  |
| tagaggacgg  | attaaaaggc  | agggaccaga  | ccgccatgga | tacaaatccc | aagacagagg  | 420  |
| atgccccatg  | ccttccccat  | gaagcttatt  | tgtctgcctg | tgtctccatg | attgcaggca  | 480  |
| tagagctact  | tgggacctcc  | aggatgatt   | acttagcgat | atgcttttta | cattctaaga  | 540  |
| atcaaaatgg  | tcctgttaatt | cccaatagag  | aaaatagagc | caattcattg | ttctcccttc  | 600  |
| tccccctctga | agccagtttt  | taaagatgag  | ccttaccacg | aaaataagcc | ccaaagaact  | 660  |
| ctcatctaaa  | tgatcagacc  | cttccctaaat | tacctttggc | aacctaggta | attctttttt  | 720  |
| attacacacc  | tccaacctga  | ccctttctac  | agtttcaact | ataaatgttc | atgccctcr   | 780  |
| tcaaataacg  | ttgctaggat  | gaatttgcca  | caggtttgag | tacagagaga | acaagcaaga  | 840  |
| aaaatgtcag  | tgttttatttt | aaggagagtg  | gccaggatgt | cagtcctcat | aattgggtccc | 900  |
| ttctctctct  | ctatcctcca  | aggtaagttc  | tttggtgact | tgataagctt | tagtccttct  | 960  |
| gtacaacttc  | tagaagatgc  | acttaatggg  | gcttctttgc | acttccagaa | ctcaccttct  | 1020 |
| attctacctg  | taaggctgta  | ggggagcatc  | ccaatcaaca | taaggcctac | cccttttagcc | 1080 |
| acgaaaaatca | gccaggcatc  | atgtttctgc  | accaccacct | gccttcctga | cgacactgg   | 1140 |
| tgctgatgac  | aaaaatggga  | cagtaccgca  | gctggtttct | ctttttcgag | tgtgtagata  | 1200 |
| agaaataaaa  | aacattttta  | ttccctcaca  | agcttaatct | agtaataata | ctgcctaaaa  | 1260 |
| aaaatcaaac  | cataaataaa  | cctatgtgct  | aaacaaatca | catgacttga | tgacttctct  | 1320 |
| aaaattaatg  | tcaaggaaaa  | aaggaaaagt  | tgatcccaag | taaaatccct | tgaccacagc  | 1380 |
| tgtctgaaat  | tagccagggg  | aatgggagac  | accaccaaga | acctcagctc | tttctgccc   | 1440 |
| tgtatttcaa  | ggggagtgtt  | gtggccttca  | caaataaaaa | ttatgaatca | caaagataaa  | 1500 |
| cgtcctcaact | tctaacctgg  | tgaatcctca  | ggaatgtcat | gaggatgca  | acacaggggt  | 1560 |
| aattcattttt | ttctcagttc  | ccccctgac   | tccacaaaag | ctttgccttc | ccaacacaag  | 1620 |
| gggctgggag  | gtccagttct  | gacagagcat  | gctgttgggg | taaacagtaa | ccatgtgatc  | 1680 |
| ccatgattcc  | cagagctctg  | agcacaaagc  | ttttcatccc | agtggcaact | ggaatgtggg  | 1740 |
| taattctgta  | aactcatggc  | cacaccttta  | atgcttgggg | acagtgggtg | gagtcagcca  | 1800 |
| gagctctttt  | ccaacttcat  | ctaggggtctt | ctctctggaa | aagcttagtg | acgttctccg  | 1860 |

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| aaggttttatt | tggttaagga  | gtattgctaa | aacacttttt | aaaaatccac | tttgaacaca | 1920 |
| tgtgtaagct  | gaaaagaaaa  | tgacatatat | acctccattg | agctgggaa  | agtgaaaagg | 1980 |
| ctgacgaaat  | gtctgaaatc  | ctgagccttt | cctggttcta | ttttaataca | gcgtacaggt | 2040 |
| aacagatgat  | ctcattttacc | ttctgaatga | cccagcactc | aatttcccta | aaactgctca | 2100 |
| gctccacttg  | gaaatcacca  | ggggacttga | gaatcttccc | cttagactca | gggagacacc | 2160 |
| cagaccagga  | agaagggcac  | tgatgttttc | agggacccaa | aagcccactt | tttttttttt | 2220 |
| tttttttttt  | ggaattcgat  | atcaagctta | tcgataccgt | cgacctcgag |            | 2270 |

<210> 356  
 <211> 1123  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (213)..(213)  
 <223> n equals a,t,g, or c

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 356   |            |             |             |             |             |      |
| caaaaataat  | aatagtcac  | acatttgtat  | agcactgggt  | catttttccc  | aagaccattt  | 60   |
| agttacttga  | cctcagctgt | tgtccagctt  | ccagtcttgg  | ggtaatggca  | gcttaataat  | 120  |
| ctgaaaattg  | ccaagagaaa | gatgtggaag  | gatgaaatgg  | aggcaacatg  | aatttctgtc  | 180  |
| accttgtcat  | atgttctcat | ttccakgcct  | tgngagcaag  | agagttaggt  | atatcttctg  | 240  |
| taactcagac  | aattttcttc | ctctttgcag  | aatggccctt  | aggaatcaag  | gtagcttttc  | 300  |
| ttttggaac   | ttcatgctgt | ttttagtgtt  | gatagaaagg  | aggtatctgc  | catttctgtc  | 360  |
| acctatttta  | ttttgttgta | gcacccataa  | tatcagct    | gtcacagcca  | caaactctctg | 420  |
| aggagactgg  | aatcattccc | agataaatca  | gaaagtcaga  | atcactttat  | ggttatagtc  | 480  |
| ctggcttctt  | gagagcttgt | ctggagggtg  | tagcagggga  | gcacagctag  | tcatataccc  | 540  |
| twgactarsg  | accggtctwc | ctctattggg  | gatggttgtc  | ctcttctact  | gagcttgcag  | 600  |
| ctttgggagg  | gacgcacatg | gagtgggtgag | ggaggaaggg  | gacacccgcc  | tagccagcca  | 660  |
| gatcagctga  | atcaaccctg | gcaatcaatg  | gggtgacaga  | tgttgcagcc  | agatcgccct  | 720  |
| cacatccagt  | cctaccttct | tggttaacaaa | acaattgggt  | ttgctgggtct | agaaactgta  | 780  |
| gggctagaca  | tgtattatag | gactggdta   | gggagagtta  | ctttatatta  | gcactcatgt  | 840  |
| tttctactcat | ttatttcttg | tagctcatta  | aaagaaaaaac | cataattgag  | catctactat  | 900  |
| atgccatgca  | ttgtgctgag | tatccatgat  | gctcaggtga  | acgggacatg  | gtcctgtaaa  | 960  |
| aagtgtaaag  | tctgctggga | aagttagtgc  | tcaaaagtgt  | aactaaatac  | ttgaggcag   | 1020 |
| tgctttacta  | gggaataaac | taaataatcaa | gagaacaaag  | ataagcaatt  | ccttcacgat  | 1080 |
| gttttacatg  | gtaaatccat | acaatttttaa | aaaaaaaaaaa | aaa         |             | 1123 |

<210> 357  
 <211> 1417  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |            |     |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| <400> 357  |             |             |             |             |            |     |
| tttttttttg | attaaaaaaaa | tttaaaaaaat | tataaaatga  | tgtcctatat  | gagtttaata | 60  |
| catgacgttg | gaggagcata  | gagatagacc  | tagactaggc  | atgtgtatgt  | gtgtgtgtgc | 120 |
| atgtgtgtat | gcatgcatgc  | ttatgcatgt  | gtgtgtgcat  | gcatgcttgt  | gtgtgtgtgt | 180 |
| gtgtgtgtgt | gtagagcctt  | ggatcatccc  | acagagcaaaa | gacacaggag  | ggtggcaat  | 240 |
| ggaagaacaa | gtgactccac  | cctcccttgc  | acagttaaaa  | tctggccaag  | tgagagggga | 300 |
| gatgggagag | gggagagggg  | agaaaggaga  | agaggcactg  | actggagggg  | ctgaagcttt | 360 |
| gtccctcctg | ggcaggcgtt  | ctccatccac  | acccctcttc  | ttggatagag  | aggataagca | 420 |
| ggccaaagat | gcacgaaacc  | tgagtccac   | tgtagctcca  | gacttctaga  | aaagtcaaca | 480 |
| gcccctgtat | ctctagctga  | tcctctgttg  | ttcaatgtct  | gcattaccgc  | actgggagac | 540 |
| acttgacaga | ttgggcctgc  | cgcaggccat  | agcagacatt  | gggcagccct  | agaacgaagc | 600 |
| tgactgtcct | tggaatgtgc  | cacaggggtg  | tgacgccccg  | gccaaactcca | tgctgccta  | 660 |
| aaatggcctc | ttgcaacatt  | cccctctctt  | catcttaaat  | cagggacttg  | aagccacaaa | 720 |



|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| atggcaaata | cacagttctg  | gcagtcgttt | tgagtattgg | agaaatcgct | ctggccatct | 780  |
| gttttgtctc | cagcatgttt  | ctcacggaat | atccacggat | atatccatgg | atataacaga | 840  |
| catcctgcca | aggcagagct  | tggctcttga | gaactcggca | agctcagtgc | ttgcctggat | 900  |
| tcctgcctca | tgtcccatcc  | agtgtttgga | gaaaagctct | gagagaaaga | tgaatgtctg | 960  |
| aggccacaca | gcctagaagt  | agtcaagagc | acaggctcta | gaactagccc | cacgtgggct | 1020 |
| gaaatcccag | caccagcgcc  | tgccggctgt | gtgatgtagg | agagctctt  | accagctctg | 1080 |
| tgctcacttt | gtctcacttg  | taaaatgaga | ataagaattg | gccgggctcg | gtggctcacg | 1140 |
| cttgtaattc | cagcacttctg | ggaggctgag | gtgggcggat | cacttgaagt | caggagttca | 1200 |
| agaccagtct | ggccaacgtg  | gtggaaaccc | cgtctctgcc | aaaaatacaa | aaattagcca | 1260 |
| ggcgtgggtg | cgggcacctg  | cagtctcagc | tactcaaaag | gctgaagcag | gagaatcgct | 1320 |
| tgaacctggg | aggtggaggc  | tgtcagttag | ccaagatcac | accactgcac | tgcagcctgg | 1380 |
| gtgacagagc | aagactctgt  | ctcaaaaaaa | aaaaagg    |            |            | 1417 |

<210> 358  
 <211> 3388  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |                     |             |            |      |
|------------|------------|------------|---------------------|-------------|------------|------|
| <400> 358  |            |            |                     |             |            |      |
| cccacgcgtc | cgcaggtaca | gccaaccatg | tcccagttcg          | aaatggacac  | gtatgctaag | 60   |
| agccacgacc | ttatgtcagg | tttctggaat | gcctgctatg          | acatgcttat  | gagcagtggg | 120  |
| cagcggcgcc | agtgggagcg | cgcccagagt | cgctgggcct          | tccaggagct  | ggtgctggaa | 180  |
| cctgcgcaga | ggcgggcgcg | cctggagggg | ctacgctaca          | cggcagtgct  | gaagcagcag | 240  |
| gcaacgcagc | actccatggc | cctgctgcac | tggggggcgc          | tgtggcgcca  | gctcgccagc | 300  |
| ccatgtgggg | cctgggcgct | gagggacact | cccaccccc           | gctggaaaact | gtccagcgcc | 360  |
| gagacatatt | cacgcatgcg | tctgaagctg | gtgcccaccatcacttcga | ccctcacctg  |            | 420  |
| gaagccagcg | ctctccgaga | caatctgggt | gaggttcccc          | tgacaccac   | cgaggaggcc | 480  |
| tcactgcctc | tggcagtgac | caaagaggcc | aaagttagca          | ccccaccga   | gttgctgcag | 540  |
| gaggaccagc | tcggcgagga | cgagctggct | gagctggaga          | ccccgatgga  | ggcagcagaa | 600  |
| ctggatgagc | agcgtgagaa | gctggtgctg | tcggccgagt          | gccagctggt  | gacggtagt  | 660  |
| gccgtgggtc | cagggctgct | ggaggtcacc | acacagaatg          | tatacttcta  | cgatggcagc | 720  |
| actgagcgcg | tggaaaccga | ggagggcatc | ggctatgatt          | tccggcgccc  | actggcccag | 780  |
| ctgctgagg  | tccacctgcg | gcgtttcaac | ctggccgtt           | cagcacttga  | gctcttcttt | 840  |
| atcgatcagg | ccaactactt | cctcaacttc | ccatgcaagg          | tgggcacgac  | cccagtctca | 900  |
| tctcctagcc | agactccgag | accccagcct | ggccccatcc          | caccccatac  | ccaggtacgg | 960  |
| aaccaggtgt | actcgtggct | cctgcgccta | cggccccctt          | ctcaaggcta  | cctaagcagc | 1020 |
| cgtccccccc | aggagatgct | gcgtgcctca | ggccttacct          | agaaatgggt  | acagcgtgag | 1080 |
| atatccaact | tcgagtactt | gatgcaactc | aacaccattg          | cggggcgga   | ctacaatgac | 1140 |
| ctgtctcagt | accctgtgtt | cccctgggtc | ctgcaggact          | acgtgtcccc  | aaccctggac | 1200 |
| ctcagcaacc | cagccgtctt | ccgggacctg | tctaagccca          | tcggtgtggt  | gaacccccaa | 1260 |
| catgcccagc | tcgtgagga  | gaagtatgaa | agctttgag           | accagcagg   | gaccattgac | 1320 |
| aagttccact | atggcaccca | ctactccaat | gcagcaggcg          | tgatgacta   | cctcatccgc | 1380 |
| gtggagccct | tcacctccct | gcacgtccag | ctgcaaagt           | gccgctttga  | ctgctccgac | 1440 |
| cggcagttcc | actcggtggc | ggcagcctgg | caggcacgcc          | tggagagccc  | tgccgatgtg | 1500 |
| aaggagctca | tcccgaatt  | cttctacttt | cctgacttcc          | tggagaacca  | gaacggtttt | 1560 |
| gacctgggct | gtctccagct | gaccaacgag | aaggtaggcg          | atgtggtgct  | acccccgtgg | 1620 |
| gccagctctc | ctgaggactt | catccagcag | caccgccagg          | ctctggagtc  | ggagtatgtg | 1680 |
| tctgcacacc | tacacgagtg | gacgcacctc | atctttggct          | acaagcagcg  | ggggccagcc | 1740 |
| gccgaggagg | ccctcaatgt | cttctattac | tgcacctatg          | agggggctgt  | agacctggac | 1800 |
| catgtgacag | atgagcggga | acggaaggct | ctggagggca          | ttatcagcaa  | cttgggcag  | 1860 |
| actccctgtc | agctgctgaa | ggagccacat | ccaactcggc          | tctcagctga  | ggaagcagcc | 1920 |
| catgccttg  | cacgcctgga | cactaactca | cctagcatct          | tccagcacct  | ggacgaactc | 1980 |
| aaggcattct | tcgcagaggt | tgtcagtgat | ggtgtacccc          | tggtgctagc  | cctgggtccc | 2040 |
| caccggcagc | cccactcctt | catcaccacg | ggttccccag          | acctgttggg  | gactgtgagt | 2100 |
| gccagtgggc | tgctgggcac | ccacagctgg | ttgccctatg          | accgcaacat  | aagcaactac | 2160 |
| ttcagcttca | gcaaagaccc | caccatgggc | agccacaaga          | cgcagcgact  | gctgagtggc | 2220 |
| ccgtgggtgc | caggcagtg  | tgtgagtgg  | caagcactgg          | cagtggccc   | ggatggaaa  | 2280 |

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| ctgctattca | gcggtggcca | ctgggatggc  | agcctgcggg | tgactgcact  | accccggtggc | 2340 |
| aagctgttga | gccagctcag | ctgccacctt  | gatgtagtaa | cctgccttgc  | actggacacc  | 2400 |
| tgtggcatct | acctcatctc | aggctcccg   | gacaccacgt | gcatgggtgtg | gcggtcctctg | 2460 |
| catcagggtg | gtctgtcagt | aggcctggca  | ccaaagcctg | tgcaggctct  | gtatgggcat  | 2520 |
| ggggctgcag | tgagctgtgt | ggccatcagc  | actgaacttg | acatggctgt  | gtctggatct  | 2580 |
| gaggatggaa | ctgtgatcat | acacactgta  | cgccgcggac | agtttgtagc  | ggcactacgg  | 2640 |
| cctctgggtg | ccacattccc | tggacctatt  | ttccacctgg | catggggtc   | cgaaggccag  | 2700 |
| attgtggtac | agagctcagc | gtgggaacgt  | cctggggccc | aggtcaccta  | ctccttgcac  | 2760 |
| ctgtattctg | tcaatgggaa | gttgcgggct  | tccctgcccc | tggcagagca  | gcctacagcc  | 2820 |
| ctcaggttga | cagaggactt | tgtgtgtctg  | ggcaccgccc | agtgcgcctt  | gcacatcctc  | 2880 |
| caactaaaca | cactgctccc | ggccgcgctt  | cccttgccca | tgaagggtggc | catccgcagc  | 2940 |
| gtggccgtga | ccaaggagcg | cagccacgtg  | ctggtggggc | tggaggatgg  | caagctcatc  | 3000 |
| gtggtggtcg | cggggcagcc | ctctgaggtg  | cgcagcagcc | agttcgcgcg  | gaagctgtgg  | 3060 |
| cggtcctcgc | ggcgcctctc | ccaggtgtcc  | tggggagga  | cggaatacaa  | ccctactgag  | 3120 |
| gcgcgctgaa | cctggccagt | ccggtgtctc  | gggccccgcc | cccggcaggc  | ctggcccggg  | 3180 |
| aggccccgcc | cagaagtcgg | cgggaaacacc | ccggggtggg | cagcccaggg  | ggtgagcggg  | 3240 |
| gccacccttg | cccagctcag | ggattggcgg  | gcgatgttac | cccctcaggg  | attggcgggc  | 3300 |
| ggaagtcctg | cccctgcgcg | gctgaggggc  | cgccctgagg | gccagcactg  | gcgtctgcgg  | 3360 |
| ccgctctaga | ggaaccctca | agggcccc    |            |             |             | 3388 |

```
<220>  
<221> misc_feature  
<222> (333)..(333)  
<223> n equals a,t,g, or c
```

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400>       | 359         |             |             |             |             |      |
| ggatcctcgcc | ggcgggcccgc | gtgcttacag  | cctgagaaga  | gcgtctcgcc  | cgaggagcgcc | 60   |
| ggcggccatc  | gagaccacc   | caaggcgcg   | ccccctcgcc  | ctcccagcg   | tccaagccg   | 120  |
| cagcggccgc  | gccccttcag  | ctagctcgct  | cgctcgctct  | gcttccctgc  | tgccggctgc  | 180  |
| gcatggcggt  | ggcggttgccg | gcgctggcgc  | cggctcgagcc | ggcctgcggc  | agccggtacc  | 240  |
| agcagttgca  | gaatgaagaa  | gagctctggag | aacctgaaca  | ggctgcaggt  | gatgctctc   | 300  |
| caccttacag  | cagcattctc  | gcagagcgc   | cancatattt  | tgactacaag  | gatgagtctg  | 360  |
| ggtttccaaa  | gccccatct   | tacaatgtag  | ctacaacact  | gccagttat   | gatgaagcgg  | 420  |
| agaggacca   | ggctgaagct  | actatccct   | tggttcctgg  | gagagatgag  | gattttgtgg  | 480  |
| gtcgggatga  | ttttgatgat  | gctgaccagc  | tgaggatagg  | aatgatggg   | atttatgt    | 540  |
| taactttttt  | catggcattc  | ctctttaact  | ggattgggtt  | tttctgtct   | ttttgcctga  | 600  |
| ccacttcagc  | tgcaggaag   | tatggggcca  | tttcaggatt  | tggtctctct  | ctaattaata  | 660  |
| ggatcctgat  | tgtcaggttt  | tccacctatt  | tccctggata  | ttttgatggt  | cagtaattgc  | 720  |
| tctggtgggt  | gttcttgtt   | ttaggttttc  | tctgtttct   | cagaggattt  | atcaattatg  | 780  |
| caaaagtctg  | gaagatgcc   | gaaactttct  | caaactctcc  | caggaccaga  | gttctcttta  | 840  |
| tttattaaag  | atgttttctg  | gcaaaggcct  | tctgtcattt  | atgaattctc  | tctcaagaag  | 900  |
| caagagaaca  | cctgcaggaa  | gtgaatcaag  | atgcagaaca  | cagaggaata  | atcacctgct  | 960  |
| ttaaaaaaat  | aaagtactgt  | tgaaaagatc  | atttctctct  | atttgttcct  | aggtgtaaaa  | 1020 |
| ttttaatatg  | taatgcagaa  | ttctgtaate  | attgaatcat  | tagtggttaa  | tgtttgaaaa  | 1080 |
| agctcttgca  | atcacactgt  | tगतgtaata   | ataatgcctt  | atatattggt  | tgtagtcatt  | 1140 |
| ttaagttagc  | tgagggctg   | ccctgtagtc  | ggtagggggc  | agtcttgctt  | tattcatctt  | 1200 |
| ccatctcaaa  | atgaacttgc  | aattaaatat  | tgtgaagatat | gtataattgct | gqccatttta  | 1260 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| aagggggtttt | ctcaaaagtt | aaacttttgt | tatgactgtg | tttttgcaca | taatccatat | 1320 |
| ttgctgttca  | agttaatcta | gaaatattt  | caattctgta | tgaaacctg  | gaagcaaaat | 1380 |
| catagtgc    | aaatacattt | aaggtgtggt | caaaaataag | tctttaattg | gtaaataata | 1440 |
| agcattaatt  | ttttatagcc | tgtattcaca | attctgcggt | accttattgt | acctaaggga | 1500 |
| ttctaaaggt  | gttgctactg | tataaaacag | aaagcactag | gatacaaatg | aagcttaatt | 1560 |
| actaaaatgt  | aattcttgac | actctttcta | taattagcgt | tcttcacccc | cacccccacc | 1620 |
| ccccccccc   | ttattttcct | tttgtctcct | ggtgattagg | ccaaagtctg | ggagtaagga | 1680 |
| gaggattagg  | tacttaggag | caaagaaaga | agtagcttgg | aacttttgag | atgatcccta | 1740 |
| acatactgta  | ctacttgctt | ttacaatgtg | ttagcagaa  | ccagtggtgt | ataatgtaga | 1800 |
| atgatgtgct  | ttctgcccaa | gtggtaatc  | atcttggttt | gctatgttaa | aactgtaaat | 1860 |
| acaacagAAC  | attaataaat | atctcttggt | tagcaccttt | aaaaaaaaa  | aaaaaaaaa  | 1920 |
| aaaaaaaaa   | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | naaaa      |            | 1965 |

<210> 360  
 <211> 1382  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1339)..(1339)  
 <223> n equals a,t,g, or c

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 360   |             |            |             |             |             |      |
| gctttgttga  | tgtgccattt  | tagtgctctg | tcgttcacat  | tttgtgtttt  | gccactggct  | 60   |
| ttttcgtttc  | tccagaaaca  | ttgttacttc | actacaaat   | ttggtcaaaa  | tgtgcaatac  | 120  |
| tcacatttca  | gagttagttt  | tcaatggaag | aaatgagcaa  | agggtttttat | tttagttaat  | 180  |
| atagaaattt  | gaataattca  | gagtacagaa | aggaacacat  | ttcatgaaca  | tgggtgggaat | 240  |
| ttttcactta  | atgtattata  | ttccaccaat | atacaaatat  | ttgtatyatt  | ttagggcagt  | 300  |
| tagaatagaa  | aatacatttt  | cagtagaatc | gttaataaat  | gaatagaaaa  | atgagaactc  | 360  |
| attgggtgagg | tagagagcaa  | acacacacta | agggagtgac  | ttgtaattga  | gcagaaattt  | 420  |
| cctttgagtt  | tcctaatagc  | caaagcaaaa | gaaaaaaaaa  | aaaggaagga  | aacaaactta  | 480  |
| caaactctta  | ccatctaaaa  | aagaaatcat | accatttttt  | agggtgtaca  | aacatttttc  | 540  |
| tattatcaaa  | ctagaggtgg  | cttttaccat | tggaatatatt | ttataaaggc  | tgtggaatga  | 600  |
| taatgtgaaa  | attccagggg  | ggaaagtaag | caagaaagta  | aagctgcaga  | gctgcatggt  | 660  |
| gggagtcagg  | tgacagaggt  | gaggagtgtg | atagggttgg  | gtctcaggta  | cttgaatyat  | 720  |
| tgggggtggt  | ttcttctgcc  | tagaaaggct | tttgggaaag  | taaatgtgaa  | gtcacaagta  | 780  |
| gagaaaggaa  | acatcagaag  | agagacagcc | tgagagtttg  | cagagctaag  | atctcaggtt  | 840  |
| aatggttatc  | tgccccaggg  | acaaaggatg | ttgtaccctt  | ttccttagga  | tttttcttag  | 900  |
| gcatttaact  | aatgtttccct | tgttttacct | agccttggtg  | cctaccaaac  | tgacatttca  | 960  |
| aagagcagca  | agtgcctctt  | ggagaacact | gggtggctta  | aacaggatgc  | aataataata  | 1020 |
| ctcttaaaacg | gtgtacattt  | tttaaaatgt | ctttttgtat  | ataakwwaaa  | tataagagct  | 1080 |
| gtagcttagc  | tcactaattg  | ccttcctttt | tgcaaaaaat  | gtgttggtgt  | atagaagc    | 1140 |
| agatctttct  | tacaaggaca  | gattgtttta | agctaactag  | tattgtagtc  | aacgcttacc  | 1200 |
| caagggcaga  | atagagctga  | tcagaagcaa | atcttgaatt  | caattcgtat  | ttatatatttc | 1260 |
| aggaactcta  | aaattaattg  | atctttctgt | tctgcccttc  | tgtcgttaact | gccacagctc  | 1320 |
| cagctctggg  | cgacagagnc  | aagactccgt | ctcaaaaaaa  | aaaaaaaaa   | aagggcgggc  | 1380 |
| gc          |             |            |             |             |             | 1382 |

<210> 361  
 <211> 1755  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 361  |            |            |            |             |            |     |
| ggcagcagcc | tcacagcgc  | tctgctggag | ttcctgctgg | ccttgtaactt | ctcttttgc  | 60  |
| gatgccatgc | agctgaatga | caagtggcag | ggcttgctgt | ggcccatgat  | ggacttcctg | 120 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| cgctgtgtca | ccgcggccct | catctacttt | gctatctcca | tcacggccat | cgccaagtac  | 180  |
| tcggatgggg | cttccaaagc | cgctgggggg | tctgtgcctg | acactcgggc | tgtttgtcca  | 240  |
| agcagatctg | aaatgggccc | tgagctgggg | gcagcagcct | cccgggagca | gggagtcagc  | 300  |
| cctgtgatgc | atcccatcca | ccctgtccac | aggtgtttgg | cttctttgct | accatcgtgt  | 360  |
| ttgcaactgr | tttctacctg | atctttaacg | acgtggccaa | attcctcaaa | caaggggact  | 420  |
| ctgcagatga | gaccacagcc | cacaagacag | aagaagagaa | ttccgatcg  | gactctgact  | 480  |
| gaaggcctgc | gggtgccttg | gcaacctgag | ccacacaggc | ctccaccctc | gcgcctcaca  | 540  |
| gggtcgcgtg | gcgttggagc | ggaggcctgg | acttctgagt | tgcaaggggg | gctgcggaca  | 600  |
| cagcaggccc | cctacagcct | caggttctgc | ctgagcccag | cctaccaggc | ttgcccctca  | 660  |
| gctcagcact | gttgaccacg | ctgcgtatga | gggcatcttg | ggtatcccac | tccttctccc  | 720  |
| catttctgtc | ccacaggcct | tcagcccttt | aacgtctctg | ccaaaaacca | gcacaaggag  | 780  |
| acaaagcaga | gccttgtctg | tatctgggca | gcaggtgttc | catgctgcta | ggtggcgggg  | 840  |
| gtcgggggtc | ttctgtttca | ctaacaggaa | caaagacaga | accatgaca  | gggctgcccc  | 900  |
| gccaggcccc | gggtgggttg | tctgcacttg | gtgctcctgc | ccacaccagc | cactttgggtg | 960  |
| acaatgaccc | ttccaagaat | ctttggttca | aggagcacca | gttccctctt | cattcttgaa  | 1020 |
| gcaggagaaa | attgaccttt | gccttgtcgc | ccaggaagtg | gggctcggca | cccataacta  | 1080 |
| acacctccca | cccttggaag | ccatgtcttc | tgggggtgag | atgaccattc | tgggtctaag  | 1140 |
| actgtttcaa | agaagagctc | atagactgac | tggtcagaaa | gacagagggt | acaacagtgg  | 1200 |
| catcacagtg | acagtgtcat | ggggagctgg | gcgggcccag | ccaaaccctc | cttcttctca  | 1260 |
| gagcccagcc | agcaggcagg | agttccttga | ccctcagac  | agtgaacttc | cagacctcag  | 1320 |
| ggcaggtcta | tgggccactg | caggagatga | gaccagcctt | ctgtgttcac | ctaacgattt  | 1380 |
| atactgtgta | tctgtctttg | atggaatttt | gtaacttttt | atattttttt | atgcaaaagc  | 1440 |
| agcttcttaa | cagatggcat | tttctgtgac | tctaggcctc | acaaaagagc | cagagttctg  | 1500 |
| gacccatgtt | tggagcattt | gtagccttat | tctcttgctg | gtgaatctct | taccctgaaa  | 1560 |
| aaaagccata | atgaattaag | ccagactgac | cacttgcttg | gagtgtgtgc | ttgaaaaaac  | 1620 |
| cagagcaata | ctgttgggta | ttgtatcagg | cttcagtaca | aactggtaac | accaatgtgg  | 1680 |
| atcctgacag | ctttcagttt | tagcaaaaat | acacgtgaaa | tctgactacc | atttaaaaaa  | 1740 |
| aaaaaaaaaa | aaaaa      |            |            |            |             | 1755 |

<210> 362

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (547)..(547)

<223> n equals a,t,g, or c

<400> 362

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| ncgaaaatga | gaaaggtaac | aatttcgaaa  | aagcatgccc  | ttctgctgtg | tttccagttg  | 60  |
| tttagatgtc | tgctctccat | gtatatatgg  | atcacattcg  | tgttagatgg | aagtttgtgaa | 120 |
| tccactgttc | tctcaaaccg | gtctcttttc  | cttgtagcta  | tcatagtgtg | catagctcaa  | 180 |
| cttctgagtg | ttgattctag | tgttcaaaga  | taggtatttt  | tcatataaga | tgctctgtca  | 240 |
| aagcaagtca | ttgaacttac | ctgggtattta | actgaaaaca  | aacaaaaatc | agcaatctct  | 300 |
| tccattgctt | gtagaaatac | tgacttaggc  | caggcacagt  | ggctcacgtc | taatcccagc  | 360 |
| actttgagag | gccaaggcag | gagtatcact  | tgagcccagg  | agttcgagac | cagcctggca  | 420 |
| acatagttag | accttgtctc | tgtaaaaagg  | aagggaaggaa | gggaaggagg | gaggggtgga  | 480 |
| gggagaggag | gggaggggac | actctgttat  | acttatcgaa  | aggtgctatc | caggtgtggt  | 540 |
| agtgcan    |            |             |             |            |             | 547 |

<210> 363

<211> 1974  
 <212> DNA  
 <213> Homo sapiens

<400> 363

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ggcacgagtt  | gggagcagct  | ctgctgctg  | ggcctcagag  | aatgaggccg  | gcgttcgccc | 60   |
| tgtgctcct   | ctggcaggcg  | ctctggccc  | ggccgggagg  | cggcgaacac  | cccactgag  | 120  |
| accgtgctgg  | ctgctcggcc  | tcgggggccc | gctacagcct  | gcaccacgct  | accatgaagc | 180  |
| ggcaggcggc  | cgaggaggcc  | tgcatcctgc | gaggtggggc  | gctcagcacc  | gtgctgctgg | 240  |
| gcgccgagct  | gcgcgctgtg  | ctgcgcctcc | tgccggcagg  | cccaggggcc  | ggagggggct | 300  |
| ccaaagacct  | gctgttctgg  | gtcgcactgg | agcgcaggcg  | ttcccactgc  | accctggaga | 360  |
| acgagccttt  | gcgggggttc  | tcctggctgt | cctccgacct  | cgccgggtct  | gaaagcgaca | 420  |
| cgctgcagtg  | ggtggaggag  | ccccaacgct | cctgcaccgc  | gcggagatgc  | gcggtactcc | 480  |
| aggccaccgg  | tggggctcag  | cccgaggct  | ggaaggagat  | gcgatgccac  | ctggcgcca  | 540  |
| acggctacct  | gtgcaagtac  | cagtttgagg | tcttggtgcc  | tgccgcgcgc  | ccggggggcc | 600  |
| cctctaactt  | gagctatcgc  | gcgcccttcc | agctgcacag  | cgccgctctg  | gacttcagtc | 660  |
| cacctgggac  | cgaggtgagt  | gcgctctgcc | ggggacagct  | cccgatctca  | gttacttgca | 720  |
| tcgccggacga | aatcggggct  | cgctgggaca | aactctcggg  | cgatgtgttg  | tgtccctgcc | 780  |
| ccgggaggtg  | cctccgtgct  | ggcaaatgct | cagagctccc  | taactgccta  | gacgacttgg | 840  |
| gaggcctttg  | ctgcgaatgt  | gctacgggct | tcgagctggg  | gaaggacggc  | cgctcttctg | 900  |
| tgaccagtgg  | ggaaggacag  | ccgacccttg | gggggacccg  | ggtgcccac   | aggcgcccgc | 960  |
| cgccactgct  | aaccagcccc  | gtgccgcaga | gaacatggcc  | aatcagggtc  | gacgagaagc | 1020 |
| tgggagagac  | accacttgct  | cctgaacaag | acaattcagt  | aacatctatt  | cctgagattc | 1080 |
| ctcgatgggg  | atcacagagc  | acgatgtcta | cccttcaaat  | gtcccttcaa  | gccgagtcaa | 1140 |
| aggccactat  | caccccatca  | gggagcgtga | tttccaagtt  | taattctacg  | acttcctctg | 1200 |
| ccactcctca  | ggcttttcgac | tcctcctctg | ccgtggtctt  | catatttggtg | agcacagcag | 1260 |
| tagtagtggt  | ggtgatcttg  | accatgacag | tactggggct  | tgtcaagctc  | tgttttcacg | 1320 |
| aaagcccttc  | ttcccagcca  | aggaaggagt | ctatggggccc | gcgggcctg   | gagagtgatc | 1380 |
| ctgagcccg   | tgttttgggc  | tccagttctg | cacattgcac  | aaacaatggg  | gtgaaagtgc | 1440 |
| gggactgtga  | tctgcgggac  | agagcagagg | gtgccttgct  | ggcggagtc   | cctcttggtc | 1500 |
| ctagtgatgc  | atagggaaac  | aggggacatg | ggcactcctg  | tgaacagttt  | ttcacttttg | 1560 |
| atgaaacggg  | gaaccaagag  | gaacttactt | gtgtaactga  | caatttctgc  | agaaatcccc | 1620 |
| cttctcttaa  | attcccttta  | ctccactgag | gagctaaatc  | agaactgcac  | actccttccc | 1680 |
| tgatgataga  | ggaagtggaa  | gtgcctttag | gatggtgata  | ctgggggacc  | gggtagtgtc | 1740 |
| ggggagagat  | attttcttat  | gtttattcgg | agaatttga   | gaagtgattg  | aacttttcaa | 1800 |
| gacattggaa  | acaaatagaa  | cacaatataa | tttacattaa  | aaaataattt  | ctacccaaat | 1860 |
| ggaaaggaaa  | tgttctatgt  | tgttcaggct | aggagtatat  | tggttcgaaa  | tcccagggaa | 1920 |
| aaaaataaaa  | ataaaaaatt  | aaaggattgt | tgataaaaaa  | aaaaaaaaaa  | aaaa       | 1974 |

<210> 364  
 <211> 890  
 <212> DNA  
 <213> Homo sapiens

<400> 364

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aattcggcac | gagattcact | aaacactgca  | atacaagctt | ggcaacagaa | caaatgccct  | 60  |
| gaggtagagg | agttgggtct | cagccatttt  | gtgatctgta | atgacacaca | ggagacactg  | 120 |
| cggtttggcc | aggtggatac | tgatgaaaat  | attctgtggg | cgagtctcca | cagtcaccag  | 180 |
| tacagctggc | gctctcacia | atccccacag  | ctgttacaca | tctgtattga | aggttggggc  | 240 |
| aactggcggt | ggtcagagcc | tttcagtgtg  | gaccatgccg | ggacttttat | tagaacaatt  | 300 |
| cagtacaggg | gtcgaactgc | ttctctcatc  | atcaagggtc | agcaactcaa | tggagtacaa  | 360 |
| aaacagatta | tcatctgtgg | aagacagatc  | atctgtagtt | acttgtctca | aagcatagaa  | 420 |
| ctaaaagtgc | ttcagcatta | cattgggtcaa | gatggacaag | ctgtagtctg | ggaacatttt  | 480 |
| gactgctcta | cagccaaaca | gaaattgcct  | tcgtacatac | tagaaaaaca | tgaactgacg  | 540 |
| gagctgtgtg | tgaaggccaa | aggagatgaa  | actgggtcaa | gagatgtgtg | cctggaatcc  | 600 |
| aaagcccctg | agtagcagat | tgtcattcag  | gtgccatctt | caaacagttc | cattattttat | 660 |
| gtctggtgca | cagttttgac | tttagaacc   | aactctcaag | tgcaacaacg | aatgattgtg  | 720 |

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ttcagccctc  | tttttatcat | gaggagtc   | cttccagacc | ccattatcat | acatttggag | 780 |
| aaaaggagtc  | tgggattgag | tgaacacaa  | attattccag | gaaaagggca | ggaaaaacca | 840 |
| ctgcaaaaaca | tagaacctga | ccttgtacat | cacctgacat | tccaagcaag |            | 890 |

<210> 365  
 <211> 1043  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (987)..(987)  
 <223> n equals a,t,g, or c

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| <400> 365  |             |            |            |            |             |      |
| gaagctggag | ctccaccgcg  | gtggcgggcg | ctctagaact | agtggatccc | ccgggctgag  | 60   |
| gaattcggca | cgagctttcc  | cctaagtttt | cttatcttca | ggctacagaa | ttattgagat  | 120  |
| tactctcaac | cattcctcat  | gtagaaaact | ctttctcaat | ttatttccat | cctctttgt   | 180  |
| cttctctgga | taatctcaga  | tttgatactg | tgttttctta | aatgtggtaa | tcccggaaact | 240  |
| ctagatatgg | ttcttcctat  | ttggactaat | cagtatacac | attccagtag | atccattttg  | 300  |
| tcctttatct | agatacagta  | tttctagtag | cttgaaactc | atttgccttt | taaaagttgt  | 360  |
| tttaggatta | aaaatcacaa  | acaaatatc  | cactgtcctc | aagagaatca | cctaacaccc  | 420  |
| ataaggattc | ttgtagactc  | atggtaaagg | ggtagctatt | gttttatatc | agatagcagg  | 480  |
| agtagctatt | cttttatatc  | agataaaaca | cattaaagca | acatgaatag | gcatttgta   | 540  |
| aaagaagata | tacaaatagt  | caacacatat | aaagaaattc | tcaacatcac | tatgatcag   | 600  |
| ggaaatacaa | attaaaacca  | cgatgacata | caccttatcc | cagccagaat | ggccattatg  | 660  |
| aaaaagtaaa | aacaaaacaa  | aaaaaacaga | tgttggcgtg | gatatggtaa | aaagggaatt  | 720  |
| gcttatacac | tgctgggtgag | aatgtaaatt | agtacaagct | gtgtggaaaa | cagtatggag  | 780  |
| agttcaagta | gatctaacac  | tttatctggc | gttctcacta | ctggctatct | attaaaagga  | 840  |
| aaataagtcc | ctatgtcaaa  | aaagacacct | acatgtctat | gtttattgca | gcacaattca  | 900  |
| caattgcaaa | gatatggaac  | cagcctaagt | ccacatttaa | ctgatgagtg | gataaaggaa  | 960  |
| atgtgtgtgt | atsmtcacca  | tggttgncaa | aaagagaccc | gttgccctct | gtaaccagac  | 1020 |
| actcaggctt | tccaggagcc  | cag        |            |            |             | 1043 |

<210> 366  
 <211> 2103  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2101)..(2102)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 366  |            |            |            |            |            |     |
| ttcctcgtag | cgagcctagt | ggcggtgtgt | tgcattgaaa | cgtgagcgcg | acccgacctt | 60  |
| aaagagtggg | gagcaaaggg | aggacagagc | cctttaaaac | gaggcggtgt | gtgcctgccc | 120 |
| ctttaagggc | ggggcggtcc | gacgactgta | tctgagcccc | agactgcccc | gagtttctgt | 180 |
| cgcaggctgc | gaggaaaggc | ccctaggctg | ggtctgggtg | ctggcgggcg | gcggcttcc  | 240 |
| ccccgctcgt | cctccccggg | cccagaggca | cctcggtctc | agtcagtctg | agcagagtat | 300 |
| ggaagcacct | gactacgaat | gctatccgtg | cgagaacagc | tattccacga | gaggatccgc | 360 |
| gagtgtatta | tatcaacact | tctgtttgca | acactgtaca | tcctctgcca | catcttcctg | 420 |
| acccgcttca | agaagcctgc | tgagttcacc | acagggtgtc | ctgggcccgg | tctmtgagac | 480 |
| agtgggtgat | ttgatgtctc | tcactctgct | ggtgctaggt | atggtgtggg | tggcatcagc | 540 |
| cattgtggac | aagaacaagg | ccaacagaga | gtcactctat | gacttttggg | agtactatct | 600 |
| cccctacctc | tactcatgca | tctccttcc  | tggggtctg  | ctgctcctgg | ctgctggaag | 660 |
| acctggagga | gcagctgtac | tgctcagcct | ttgaggaggc | agccctgacc | cgcaggatct | 720 |

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| gtaatcctac | ttcctgctgg  | ctgccttttag | acatggagct | gctacacaga | caggctcctgg | 780  |
| ctctgcagac | acagaggggtc | ctgctgggta  | tgtggcttcg | tagggcttgg | gataacctggg | 840  |
| tttccccaag | gagagtagcc  | cctgggtcca  | ggtgcttget | gacagcctcc | catccctgca  | 900  |
| cagagaagag | gcggaaggct  | tcagcctgkc  | aacggaacct | gggtacccc  | ctggctatgc  | 960  |
| tgtgcttgct | ggtgctgacg  | ggcctgtctg  | tgtcattgt  | ggccatccac | atcctggagc  | 1020 |
| tgctcatcga | tgaggctgcc  | atgccccgag  | gtagcaggg  | tacctcctta | ggccagggtct | 1080 |
| ccttctccaa | gctgggctcc  | tttgggtgccg | tcattcaggt | tgtactcatc | ttttacctaa  | 1140 |
| tggtgtcctc | agttgtgggc  | ttctatagct  | ctccactctt | ccggagcctg | cggcccagat  | 1200 |
| ggcacgacac | tgccatgacg  | cagataattg  | ggaactgtgt | ctgtctcctg | gtcctaagct  | 1260 |
| cagcacttcc | tgtcttctct  | cgaaccctgg  | ggctcactcg | ctttgacctg | ctgggtgact  | 1320 |
| ttggacgctt | caactggctg  | ggcaatttct  | acattgtgtt | cctctacaac | gcagcctttg  | 1380 |
| caggcctcac | cacactctgt  | ctggtgaaga  | ccttcactgc | agctgtgcgg | gcagagctga  | 1440 |
| tccgggcctt | tgggctggac  | agactgcgc   | tgcccgtctc | cggtttcccc | caggcatcta  | 1500 |
| ggaagaccca | gcaccagtga  | cctccagctg  | gggggtggaa | ggaaaaaact | ggacactgcc  | 1560 |
| atctgctgcc | taggcctgga  | gggaagccca  | aggctacttg | gacctcagga | cctggaatct  | 1620 |
| gagaggggtg | gtggcagagg  | ggagcagagc  | catctgcaat | attgcataat | ctgagcaga   | 1680 |
| gtttgggacc | aggacctcct  | gcttttccat  | acttaactgt | ggcctcagca | tggggtaggg  | 1740 |
| ctgggtgact | gggtctagcc  | cctgatccca  | aatctgttta | cacatcaatc | tgccctactg  | 1800 |
| ctgttctggg | ccatccccat  | agccatgttt  | acatgatttg | atgtgcaata | gggtggggta  | 1860 |
| ggggcaggga | aaggactggg  | ccagggcagg  | ctcgggagat | agattgtctc | ccttgccctc  | 1920 |
| ggcccagcag | agcctaagca  | ctgtgctatc  | ctggaggggc | tttggaccac | ctgaaagacc  | 1980 |
| aaggggatag | ggaggaggag  | gcttcagcca  | tcagcaataa | agttgatccc | aggggttgct  | 2040 |
| ttgttttttt | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 2100 |
| nna        |             |             |            |            |             | 2103 |

<210> 367

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (456)..(456)

<223> n equals a,t,g, or c

<400> 367

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | tgagctttct | ttctcctgca | ggcattggaa | atacagtccc | agctggcaac  | 60  |
| accagccagc | agcacagccc | ggaatcctgc | tcctgacctg | caccatcccc | accagcccac  | 120 |
| gatagaacgt | ttttgtaggc | attcctcctc | atgggagagg | atagagtaca | tgcgagtttt  | 180 |
| tgtctccttc | ccaccctttc | acaagagcac | tgtgctttct | tttcttctt  | ttttcctttc  | 240 |
| tttttttttt | tttaggcagg | gtcttgctgt | gtcasccagg | ctggaatgca | gtgggtgcaat | 300 |
| catagctcac | tgacgccttg | acctcctgga | ctcaagcaat | cctcctgcct | taacctccca  | 360 |
| gctactcagg | agaccgagac | aggaggacca | cttgagccca | ggaggttgag | gctgcagtga  | 420 |
| gccgagattg | caccactgsa | mtccagcctg | gggaan     |            |             | 456 |

<210> 368

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (580)..(580)

<223> n equals a,t,g, or c

<400> 368

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| cmgctrctra  | gcaactnagt | gggatscccc | gggctgcagg  | aattcggcac | gaggagaacg  | 60  |
| gctgcacgtg  | ggagatgctc | cgtggatgtt | tgtagaacgc  | tggcttccgt | gtttcctcgt  | 120 |
| tgtggctgtg  | gtgggtgtgg | tctttgcctg | tggaccctg   | gaagacaaag | aagacagttt  | 180 |
| tggatgggtca | agctattttc | ttgcttcagg | gctccctccc  | ctgctttttg | aagcctcaca  | 240 |
| aaccaggact  | gtgagggcag | gaaggcttgg | ggcttttgtg  | tgctgagcct | cattaggggt  | 300 |
| ttaagaacct  | ccctcctttc | atctctagct | tacgagaggg  | atgattcatt | atcttccctc  | 360 |
| ctcaggctgc  | agtagaagca | gacagtctct | gcctccctgct | tgccctttcc | tccctcccat  | 420 |
| tactgttga   | ttattgccct | caagaataac | aggttgccc   | gctactcgag | argcttaagt  | 480 |
| gggaggattg  | cttgacccca | ggagttcgag | gctgcagtga  | gctatgatcg | cttcaactgcg | 540 |
| ctatagcctg  | gcagacacag | agagacccta | tctcaagcan  | acagacaaac | aaaaaaaaaa  | 600 |
| aaaaaaaaaa  | ctcgag     |            |             |            |             | 616 |

<210> 369

<211> 575

<212> DNA

<213> Homo sapiens

<400> 369

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| atcctctgga | atctaggtgg | aagccaccaa | gccttcttca  | cacttgcgtt | ctgagcatct | 60  |
| gcagacttaa | ccccatgtgg | caatcaccaa | ggcttatggct | tgtgtcctc  | cagaactgtg | 120 |
| gccagagctg | tacctgggcc | cctttgagct | gaggctgaag  | ccagagtctg | aagctcagca | 180 |
| gggcagtarg | gccctgggcc | tggccccga  | aaccattctt  | ttctcctaag | cctctgggcc | 240 |
| tttgatggga | rgggctgtcc | tcaagatttt | tgaaatgcct  | ttggagggtt | tttgccttgt | 300 |
| cttgatatt  | ggcttccttt | tagttatgct | catctctcta  | gcaagtgaat | gtttcacaac | 360 |
| ctgcttgat  | tctttctcta | ccacagarcc | aggctgcaaa  | ttttacaaac | ttttacactc | 420 |
| tgtttccctt | ttaaataata | atttcaatgt | taagtcactt  | ctttgctccc | atatctgatt | 480 |
| taggttgctg | gaagtagcca | agtcacctct | tgaagcttt   | gctgcttaga | aatttctct  | 540 |
| actaggtagc | ctgggtcatc | acacttaagt | tcaaa       |            |            | 575 |

<210> 370

<211> 1144

<212> DNA

<213> Homo sapiens

<400> 370

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| gcacacatac | gtatgcatat | aaggattatc  | atatataaat  | ttatataaca  | atttttatgc  | 60   |
| atgagtgtga | ataaatatat | gcataatat   | gtctgtatat  | gtaaacataa  | tgcataatag  | 120  |
| aatttacata | tatctgtgtg | tatatatgtg  | tgtggcacag  | tcacacacac  | acacacaaat  | 180  |
| atgtatacag | atgcttcctg | gcttacaata  | ggatttcacg  | ctgataaaatt | catcgtaaatt | 240  |
| caaaagtatt | gcaagttgaa | aatgcatttc  | atcccagct   | aagttcatca  | tttghtcaaa  | 300  |
| agtattgtaa | gtcagaatac | atttgacatc  | tggataagtc  | cattataaag  | tcaaaacatt  | 360  |
| ttaagtctaa | tcattgtaat | ttgggtaccg  | tctatgtaga  | tacgtaaatc  | atacatatag  | 420  |
| ggtgactagg | tgccagggtg | aatgttatga  | aaatgaattt  | caagtctcac  | aggcacattc  | 480  |
| accattaca  | aatatgtacc | acattcacct  | attacaaata  | tgtacacatg  | tatgtgttca  | 540  |
| tgttcatact | acaatggcag | agttgcataa  | ttgtgacaga  | aatcaaattg  | cttacaataa  | 600  |
| ctaaggcatt | tctacatagc | cttttaaaagt | aaaaagttta  | ttcattgttg  | gtctacataa  | 660  |
| cgtggaggaa | tttgtagcgg | acaggctatt  | acagtcagtg  | aattgaaagg  | aagggagaag  | 720  |
| ttgggggaga | ctagtagctt | tttgaaggta  | ttattttaga  | gattttatgaa | kttttgaggaa | 780  |
| acaagggatg | aggaaaaagt | attgaagaat  | ttgggagagc  | aggatatcaa  | ttagtttctg  | 840  |
| actttatttg | gaatgcagat | cagagaaagg  | ctgggataga  | aaactgaaat  | aataattat   | 900  |
| gccttcggtg | aatatcagca | ggactgatgg  | gactataggg  | agggtagact  | aggtgataga  | 960  |
| gcccattgtg | gcagtttcgg | taggacatca  | ttgggtgtata | cgtatatgtt  | atttgtgatt  | 1020 |
| ttgtttatct | ttttttaata | agcaaaaagg  | aaagtgtcct  | gatatgtttt  | ggctttgtga  | 1080 |



```

ccccatccga atctcacctt gaattgtaac aaagttttac catgttaaac aggctagtct 1140
cgta 1144

```

```

<210> 371
<211> 703
<212> DNA
<213> Homo sapiens

```

```

<400> 371
gcttggttac gtttatagct tcaacacgcc tctcattkta ggtttatata tgtggttgc 60
tgctcattta tttgtcatc atttgctcat tttattacca gttattgagw gcctactgtg 120
taccaggcac tgggcaaggg gcattctgtg agagagggtg tggtagctgc gggcttaagt 180
agtccgtggg cttgtgagga aaacgctaga ttagatcttg attactgtaa atgtcaarta 240
tggccaagtg tgggatttcg tggcaggagt gagctttcct ggaatttgct tttcttgcc 300
caatttgcc  gatagtcatt tcatgctagg gatgttttaa agtctctggg gaggccctgc 360
agtgtagagg aaaatgctga tccacaccag aaatgcgaac ctggctctct gcccttgggc 420
aagtcactta accctcctga gcctcagttt ccatctgtca cttagagctg atatcacta 480
cttaacaccc aggcctttttg tgaggggcat tatctcatta gagataatgt ttttaaaagc 540
tctttgtaaa ttgtgtagca ttcaaagtga agttattgtt atttttatta ttgagtgcct 600
tctaattcaa cactgggata gtaacaaaag aagagagggg ttattatcac ccctcttccc 660
tgtcacgitt agattggggc aaggaaaagg tctcaccctg cga 703

```

```

<210> 372
<211> 1649
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1249)..(1249)
<223> n equals a,t,g, or c

```

```

<400> 372
agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccggttg caggaattcg 60
gcacgaggga tctgtgtggc atggtatgtg tgtttatgtg tattgtgggt gtctgtgtgg 120
catgctgtgc gtgtgtgtat tgtggatgtt tactgtcccg ggcagtagaa aggacgtcgg 180
ggaagcagcc ccagcatcag ggacaggcca ggagtgcaga atgcatggaa gctggtcagg 240
tcggagcctg ggatgaagga agcacagaga tgcaagggtg ccaggggcca tggaaccaag 300
agccgatgat caaggccaca gtgcacacag ccctggaggc aaaggacata ttcatttcac 360
aaggattaaa aagcatgggc caaggctggg cccagggcca ggactgggga tacagagtgg 420
atcagtcccc atccctgccc ccagggtgctt acccacccc atcacctca caggtttccc 480
caccaccagc ccttggcgag ctctctctca ttctctcaar cgtcgtkag gtcacgtccc 540
ttcccgaggc ctctcccat cctctaaaac accctctccc tgctgccac ttgcagcaca 600
gtcagagagc tccgtggcct gtttccactg gactgagtct tctggggggg gctgggtgcag 660
agcagarccc tgggctggga gtcccgccac ctctgtccac tccctcacc acagcctcgc 720
tgtttaacct caggcaggcc gtgtmccctc tcagcctcac tttccccttg tgtaaaatga 780
gggaagggac tgcgccttct aagccatctt tcagcttaaa acctctttga cttctatct 840
ggctaattga ggtgctgacc aggggcaaga agggatga aaaacgctt gaaaaattca 900
tagcaggagg caaaggagaa agagtcttta ttttcgtaga gcgggaggca ggaggagtta 960
tggaacagag ctgtcgatga aaaggacagc atctcagagc actttgtggc atttaatgtc 1020
taatgcctcc tcccattaaa gcagtggcat caaatattta ccaaagcagc attaaaaatt 1080
aacctttacc atggggatgt ataaaggccc taagtccctt gagaagtgc cgaacatcag 1140
gagggtaaaag tgacaggaag gaaggctaca agcgggttgt gaataatga agcccccaaa 1200
gttcccccac cacagctccc tgttgacccc actcccaaag ccagggcanc ctccggccg 1260
gtctctgcag aggcctccag cccttcggag atccccagag ggcctgcagg ataaggacag 1320
gccctcagct gggcatccac agccttccat ggcctggccc tgcctctctg ggcagctggg 1380
atctgtagga tggaaaggaa tgagtctgtc ggagttggaa gagaccaggg gaggaagtgg 1440

```

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| ggagtgggtcc | gggcactgga | aatagcacgt | gcagaggcac | tgaggcagag | acagctgcac | 1500 |
| atcaatccat  | cagaagagca | gccaggtggc | atgagtgtgg | gggaggaagg | aagcgcagga | 1560 |
| ggggacaggt  | gggagatgca | ggtaggtctg | actgtgcagg | gccatggtaa | gatgtgggct | 1620 |
| tctcgtcca   | gggacagggg | tgccctcga  |            |            |            | 1649 |

<210> 373  
 <211> 639  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (62)..(62)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (126)..(126)  
 <223> n equals a,t,g, or c

|            |     |
|------------|-----|
| <400> 373  |     |
| tcctttcatc | 60  |
| tnaggaacct | 120 |
| gcagantcag | 180 |
| tgcccttcyc | 240 |
| aggccaatac | 300 |
| aattccatgt | 360 |
| ttgtttatgc | 420 |
| aatgtccctc | 480 |
| aaataaaaaa | 540 |
| gtcaggaagg | 600 |
| ggcaggtggt | 639 |

<210> 374  
 <211> 520  
 <212> DNA  
 <213> Homo sapiens

|            |     |
|------------|-----|
| <400> 374  |     |
| gagaaggact | 60  |
| ttggtgcagt | 120 |
| gaagagttaa | 180 |
| gagacatgcc | 240 |
| gactctgaaa | 300 |
| gcctgcagat | 360 |
| gcgagtggta | 420 |
| cccagaagta | 480 |
| gtcacatgat | 520 |

<210> 375  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

|            |     |
|------------|-----|
| <400> 375  |     |
| gcacagaggg | 60  |
| aagggatgga | 120 |

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| gaaagtttct  | aggaagcttc  | tgcagaaccc | tatgcaatgt | gcctcgaatt | gtccaaggaa | 180 |
| ttgaatggg   | agctgggtgca | tttgtacact | acttctgttg | ctcactgatg | ggcaacaggg | 240 |
| cttttatccc  | cagcctttcc  | aggctgcccc | ggggagacag | cagctatggg | gaggcaccaa | 300 |
| cccatgggct  | gtactcattc  | cagaatcctt | cctcccctac | acgctgacag | tcaattattc | 360 |
| accaagttgt  | aacttcgaat  | tctacttacc | taaaatgcgt | ttggcataa  | tctgcatgtc | 420 |
| acactcacac  | tgtccctatc  | ttggtcgaga | cattataatc | actctcctga | actactgcag | 480 |
| cagcttcccta | gctgaactcc  | tggtctatct | ggtctatatt | gctg       |            | 524 |

<210> 376  
 <211> 1035  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (110)..(110)  
 <223> n equals a,t,g, or c

|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| <400> 376   |            |             |            |            |            |      |
| gagcggataa  | caaatttcac | acaggaaaca  | gctatgacca | tgattacgcc | caagntcgaa | 60   |
| attaaccttc  | actaaaggga | acaaaagctg  | gagctccacc | gcgtggcgn  | ccgctctaga | 120  |
| actagtggat  | cccccgggct | gcaggaattc  | ggcacgaggt | tacctcctct | ctttcagaaa | 180  |
| aaagtgttta  | aatttaataa | aaaaatacag  | acttcctctc | tctctgacct | gtttctgcac | 240  |
| ttctaatttt  | gtcccattgt | tatatctcaa  | ttctgaaaca | agtcccaaac | ctttttgtac | 300  |
| actcaggctt  | ttattattta | taggtgtctt  | taatgtgggt | tcgctgtttt | ttgcttattt | 360  |
| ttgtgagcag  | tgtgactttg | acaggtgact  | ttagaaacat | gaagaagcca | agcagcctgt | 420  |
| gcctcttttag | acagggcttg | atgtctgctt  | ctgaagttag | tggcagcgga | agtggagaag | 480  |
| gggattgaaa  | ggtatcttta | aattcgraat  | tatagaaagt | aaaaactggt | agatgtgagg | 540  |
| acagtgggga  | aactaagatc | atagtcgcct  | aaggttctgt | taatacttga | gttgaccagg | 600  |
| ggggctgggt  | atgacattga | tcattgctaaa | ggaaaagatg | ccaggaatga | gctggggcag | 660  |
| agtgaattgg  | gcagccttcc | atcttgacag  | cacaccaaaa | tgtataaatt | agcaaaagcc | 720  |
| catctttccc  | taatgccact | aagctgtcag  | tttctggaat | tatcatcatt | attarattca | 780  |
| taatggtttt  | aatraagggt | tcattccaaac | tgacactttg | aaaataaagt | gagatgatgc | 840  |
| ctaaattgga  | ggcttggaat | gaccttagaa  | aactgctcca | ggaaacttga | gaatgtccca | 900  |
| attacttaaa  | gaactctgag | tcagctacat  | ggtcattcc  | attcatttgc | tttgcatgtg | 960  |
| agagatttat  | ttggattgac | acaggttcat  | gcctcccaga | aggctccacc | taaaccatca | 1020 |
| ctctgctttc  | tcgag      |             |            |            |            | 1035 |

<210> 377  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 377  |            |             |            |            |            |     |
| ggcacgaggc | aaaagcttgt | gctgttagct  | ttaaagtgt  | tttaaaataa | atctgaaatc | 60  |
| atttaaacag | catgaacctt | ggtggccaaa  | tagatcaatg | acaaagagga | gaaaacctag | 120 |
| atacagggtc | atttttgoc  | tatatgcttt  | gagattagtg | tttctattta | gagctgtgac | 180 |
| taatacagat | gcatacaggc | tgagagcaaa  | ggaggtgaa  | tgtccctatt | aattgccacc | 240 |
| atggtgcgag | gctggaatga | gggtgtggcc  | agctaagagg | ggatttgctc | ttcttgccct | 300 |
| agaagttcct | cattgtttcc | tgtcctgtct  | tgtgtccagc | tgcttagcac | acttcctttt | 360 |
| ggtatttaat | gctttttata | gctggaaccc  | tgaggttcct | cagaaatctg | cacatgctta | 420 |
| ctagatggtg | ctctggattt | tcttttaaaga | taggaagaaa | aaggcaaagg | caggtctgtg | 480 |

acgcttctta c

491

<210> 378  
<211> 1042  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (222)..(222)  
<223> n equals a,t,g, or c

<400> 378  
gaatcggcac gaggaatat tactgaattt tcttttatta tcaaatacaa atttagcata 60  
tcctatgtaa aatgctgatt gcccttttct gcatattatt tcagatcttg ttttctatac 120  
ccacaaggat tttctatata tttctcataa acaagagagt ccacatattt actacttacc 180  
ttatgagtga acaaaaaaat cacgattggg ttgcgagaac tncaaagttg caccgtgtgt 240  
ggctcattag tggaaaaatg ctgctggttg cagatataaa ggctctgatc aggtggctgt 300  
ggggccctaa tccagaatga gcacagttat tttgatcaat ggagtctaac ctagtccctc 360  
cccaagggtc aaaatgtcct ctggtgcttg caattttctt acagtatttt tttctaattg 420  
ataccaagct gggactctcc ttgtatatca tatttggaat tgaaaagtga aacaaatgag 480  
aattttcctt ttgcgttggt gaatgcatac agtgatttaa gtttgggtgc atttctttca 540  
gtctgttgat tgttctagga atcgatgctc acagatcaat gagtcatgtc caattcata 600  
aacaactgcc tggggtgagt gtggcctcat aaatgtgaac aaatagtaat ggagtggcaa 660  
tcaaacctaa agtgttactg caaatcatgc catgctgaaa gaagaaacat ctcaaaaaga 720  
gaataaacat ttttagggtc ggggtgtggtg gttcatgcct ataatatcag cactttggga 780  
ggccaaggca gaaggattgc ttgaggctag gaggttggaga ccagcctgag taacatagt 840  
agacccagct ccttacaaaa aaaaaaaaaa attaacaaag gattgtggtg catgcctgta 900  
gtcttagcta ctcgaggagg tgaggaggga agacaacttt aaccggggag ttcaaggtr 960  
cagtgtatg attgcacat cgcgttcag ccttgggtgac agagcaaga tctgtctcaa 1020  
aaaaaaaaa aaaaaactcg aa 1042

<210> 379  
<211> 1095  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (616)..(616)  
<223> n equals a,t,g, or c

<400> 379  
gatggtatgt gtgtggtgtg tataggggtga atgtgtggtg tgtgaggtgg gcatggtgtg 60  
tgtgaggtgt gtgtggtatg tgtggcatgt gtttgggtgt tatgggaata tactatggat 120  
taggacatgt gggttattca aagatctatc cttttgtgct ttgaaatctg aaatgtagaa 180  
actgtggcct cactgaggag gaggtttaga atatgcaagg gagatgatca ggactggatc 240  
ttgtatttgg gtaccacatc cagtcccaga cagcatgcta aggcaaggag ctcataaaag 300  
ccccaagctc tagctgttgg ctacttatct cctggagcat caggtagcgc cgttcaggct 360  
ggggagtcct gatggctgcc tggttgttac aggatgttac agcttaggcc tggggacata 420  
gccagacacc ctccagargt tgtgtctgtt ctttactctt caggttccct ggaggcagga 480  
gaggartctg cctcatttct ggcaggcacc ccaactactgt tattgagcaa tectccaggc 540  
tgcagagatg tcagaggagg accctaattg tccckgattt tgattatttt gttctttttc 600  
cctagggtgt ttactngcag ataccttgag taccttggttgtatatattcac tttgaaagca 660  
cacatttaaa tgtttataag gaaaagggtc taaagacatc cattgatcca ttcatcctc 720  
attcagcaaa tacctgttga atacctgctg tgtgctaggc actgcggtgg gcgagccaga 780  
rggctttgtt gctccaagga rcttgcattc tagtattcta gttattttca cgcactctgca 840

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| ctatctggga  | cagggaccat | tgcgttttgt | cgtatataaa  | gcagcatgtg | tctgcactac | 900  |
| agttttgtgtc | cgtygcagat | gggcaaggat | tgagtgc aaa | aacttctggg | ccaaaagggg | 960  |
| ttggcttggg  | tcaggctgct | aagtagctga | ggtgaaagca  | tgtgccaccc | ctcctgatac | 1020 |
| agggatcctt  | gctgattgtg | tgtgacacca | gggcttccc   | atctgtcagc | tgggtttgtc | 1080 |
| ctcacagtag  | ctcga      |            |             |            |            | 1095 |

<210> 380  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 380   |            |            |             |             |             |     |
| ggcacgagaa  | aggagccaca | tttcttctcc | tttcacctgc  | atgtcataag  | gtggatcatgg | 60  |
| atatattctt  | tcatattctt | gctaaaatac | tcattgctgg  | aagtaacaca  | agggtatcaa  | 120 |
| atattgtataa | acaacagtat | gatttagttc | tctaataataa | taatgcaata  | taacaaaatg  | 180 |
| agtccattca  | actgttgtcc | attcaactat | accttaatat  | atattatattt | attgatgctt  | 240 |
| atctatgtat  | acattagttc | tgtgcacagt | ctaaggata   | gtgatctgtt  | aaatggataa  | 300 |
| atgaatgaat  | ggctgaagtt | ttatccttct | gaatggatga  | gtggcctctc  | tagttcattt  | 360 |
| tcaagcctcy  | agggcyatga | tacakgtttc | ctatttccag  | atatttcttt  | atgttctctc  | 420 |
| tttattt     |            |            |             |             |             | 42  |

<210> 381  
 <211> 796  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 381   |            |             |            |             |            |     |
| ggcacgaggt  | gacgtgtttc | tgcattctgtt | gccatgacaa | gctccctgct  | tcacccattg | 60  |
| ctgtatcccc  | agcacctctc | tcactgcctg  | gcaagggaaa | gcactcagaa  | gacgtgaat  | 120 |
| gaccargtag  | agtgatgggt | tgtacagcac  | tgtactcct  | tttccatctc  | tgtgtcccat | 180 |
| gtgaacctta  | tggcacccat | gagaaggagc  | ttgtaccagg | tttatacttt  | ctagtttaca | 240 |
| gatgagaaaa  | caggatcaga | gtggtacaga  | tattggtcta | agtcacagag  | aaagtgaatt | 300 |
| gtaaaagcag  | aaacagagca | caggctgcct  | gacttctagt | ccagtgcctt  | ttgctcaaat | 360 |
| tgcctcttat  | ttctcaggtt | attcttgaaa  | tggcagatgg | ggattctggt  | taatgaaaca | 420 |
| aaagtgacaa  | ttctttcttt | cttggagaga  | aggtggagac | agggctctcac | tctatcacac | 480 |
| aggtctggagt | gcagtggctc | aatcatggct  | cactgcagcc | tcaatctcct  | gggtcaagt  | 540 |
| gattcttcca  | ccttagcctc | cttgactcæ   | tgggactaca | ggtgcacacc  | accatacctg | 600 |
| gctaattttt  | aaagttttt  | gtagagacag  | ggtctcacta | tattgtgcat  | tctggtcttg | 660 |
| aactcctggt  | cccaagtgat | cttcctgcct  | cggctttcca | aagtgcctgga | attacaggca | 720 |
| tcaccccat   | gcctagcctg | aaaattcttt  | ctatgtcctt | aacatcttct  | ttcccagtat | 780 |
| ttctccatcc  | actga      |             |            |             |            | 796 |

<210> 382  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (492)..(492)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (494)..(494)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (522)..(522)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (526)..(526)  
 <223> n equals a,t,g, or c

<400> 382  
 ggcacgagaa aaattctcaa gacccatgtg aaagtcagag aggggtgtg tggcctggct 60  
 ggcctgaaga caggtgttct gatgattctg gcaggggccc ccatttgcct ggcactgaaa 120  
 ttatattagt atctttactg tatgagcacc gtgcccatac gggcaagctg tgactcctgt 180  
 caccaaacac tcaggaacca ttgcttttgg ggccctccagg atgggtttcat ttgtaggcat 240  
 ctgccttctg ttggggctct ttttttctcc ttctctacag gggacaatat ggcaccaccc 300  
 agcaaaacct gatgggagtg gacatggact accctcattt gcagtaatca tgggcaagca 360  
 ggtggtaccc acagtgtact ggagaatgcc ctaccctcgw aggggggggtc ccggtaccya 420  
 attcgcccta tagtgatcgt attacaattc actggccgtc gttacaaac gtcgtgactg 480  
 ggaaaacctg gngntaccca acttaatcgc cttgcagaaa tncctt 527

<210> 383  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<400> 383  
 ggcacgagct cgtgccraat tcggcacgag ggtcatagtc cacagaggta aaagttaaca 60  
 attctgatgc tcttgatgtg gcataccaga ggctctaggg aagaattccc tctttctttc 120  
 ttccaccttc ttgtggctgc tggcattctt tggcttgtgg tcacatcact cctatcttga 180  
 aggccagcat cttcaaatct gtttcttctt cacatagcct tctgtgtgtg cagtgccttc 240  
 tacctctctc ttataaagac atttgtgatt aaatggaggg ttaggataa tctcgtcaag 300  
 atccttaact taatcacaac tgcaaaaacc tctttcccaa ataaggtaac attcacaggt 360  
 tccagggtat aggacctatt atctttggta agtattattc agcctaccac aatagctaaa 420  
 acaattctga aaaagaagaa taaagtgaga gaaatcagtt tatctgattt cgatacttat 480  
 tgtatagcta tggtaaataa ggctgcatgg tattaagaa aggacatata tgaatgaaac 540  
 agaatagagg acccagaaat agaccacac aaaggagccc aaattatatt taaccaaggt 600  
 agaagacaat ttattggagg aaagacagcc ttttcaacaa atggtactat aacaattaga 660  
 tatccatagg caaaaaaaaaa aaaaagaatc ttgatchag gtcacacct tatataaaat 720  
 aatattaaac tcatggccag gcacagtgc tcatgcctat aatcccaata cactgggagg 780  
 ctgaggcaag agtatcactt gaggccaggg gttcaagact agcctgggca acacagtga 840  
 actctatctc tacaaaaaaa ttataaacta gctgggcatg gtggcacatg cctgtagtca 900  
 caactactca cgaggctgag aagatcactt aagctgagtt gttcaagggt ctaatgagct 960  
 acaatcgtgc cactgcactc cagcctaggt gacagacaaa gaccccatct caaaaaaaaaa 1020  
 aaaaaaaaaa actcgta 1037

<210> 384  
 <211> 828  
 <212> DNA  
 <213> Homo sapiens

<400> 384  
 acgagaacac catgctagtg agttcattcc taacagagga gaacttgcac cttgactaag 60  
 cattagtgat ctcaaactct ctgcttatga tttttaaact tctgatcttc agaatatatt 120  
 tccatgagct agctctggct ttgtgcatct caaaccttgt ttctctccca tggctgtcat 180  
 acttctggtg ccctgagatg cagaatttat ttctacttga tacacacatt tgggtattga 240  
 tgtagggtta gtacagcagg taggttgaga atttctggag cctccctccc tccctttggt 300

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ctgacctttc | cttagtcata | tcatacctaga | aagatcttcc | ctggcttcgt | ctaaaacatg | 360 |
| gcctctcatt | tcattctctc | cctgacaacc  | dgatgtagt  | tttcatttca | ggactcatca | 420 |
| ccccaacatc | ctttcctggt | tacagcccat  | ctcccctgct | agaacacaag | ctctgagagg | 480 |
| tggaaggcct | ctattgtggg | ttttggcgaa  | tccccaatct | ctagatgggt | tctggcatgt | 540 |
| gatatagatt | caacaaacac | ttcaacaaat  | aatgaataaa | gttaaatttt | tcagagtgc  | 600 |
| atcatgcctc | tcccttcctc | tgccagggcg  | gaggctgtgc | ctggtttgcg | cggcttctgc | 660 |
| agctccagct | ccttgtagtg | agtctggaga  | atgatggagc | tcagtccatt | ttaatcccat | 720 |
| gaacattaaa | tgcgtggatg | tgtggatgct  | gggatggatg | gatgacgctc | ctagcacggc | 780 |
| agcttgcagg | ggattggcga | tttccagtaa  | ggtgtgctaa | gactcgag   |            | 828 |

<210> 385

<211> 985

<212> DNA

<213> Homo sapiens

<400> 385

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| gtcggcacga | gtaataaaaat | ctaacacctg  | cttagagacc | attctttagt | tggaacacaaa | 60  |
| gtgccagcct | ctaataactcc | ttccttactc  | ttcatggaaa | ccttgaagag | tgattaaaaa  | 120 |
| tagtactgtt | tatgtctctg  | accacagagc  | cagtcatttt | cagcacttaa | ctgaaattgc  | 180 |
| tcattgatgt | gtttctaaca  | atggccacat  | aagtggcaaa | tcccttaaga | attttgccct  | 240 |
| ctcagcaggt | ggcaatctgc  | cacctttatc  | tgatcatttc | tctcctcctt | tggcattgta  | 300 |
| gacaccattt | tttctgtggt  | atgacactac  | ttctctttat | cttctttgtc | gattgctttt  | 360 |
| ccactccagg | gagttctgtg  | tttgacacac  | aggaggtgtg | ggtagttggt | tactctgtaa  | 420 |
| ataagttggt | agcctgtgcag | cactgccaa   | gaattgcacc | aaatgtgtat | gcattagcag  | 480 |
| ttaagaagag | cgtgtgcaat  | gttagtgaat  | ggagtctggt | catttgtcat | ccaatgcta   | 540 |
| tttagcacct | gttatgtgac  | agataacagg  | ccggcactcg | gatcataacc | cggagcaaca  | 600 |
| tagtcagaaa | caaacacaat  | ttctctcctt  | ggtaagcctg | gtctgttggg | aggtttgata  | 660 |
| agtaaaaaga | agactgagar  | gccgggagcg  | gtgctcasgc | ctgtaatccc | agtactttgg  | 720 |
| gaggccgarg | tgggtggawc  | acctgaggtc  | aggarttcaa | gaccagcctg | gccaacatga  | 780 |
| taaaaccccc | tctctactaa  | aaatmcaaaa  | cctagccarg | catgggtggc | ggcgcctata  | 840 |
| atcccagcta | ctcgggggct  | gaggcagaag  | aatcgcttga | accogggagg | cagaggttgc  | 900 |
| agtaagccga | gatagcacca  | tcgcaactcca | gcctagggga | caagagcaag | attcatctc   | 960 |
| aaaaaaaaaa | aaaaaaaaaac | tcgag       |            |            |             | 985 |

<210> 386

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 386

|             |             |            |            |              |             |      |
|-------------|-------------|------------|------------|--------------|-------------|------|
| gaattcggca  | cgagcttgggt | tcggggggga | gcaaaatcca | gaatctgcta   | aacaccaatg  | 60   |
| ctgtcactca  | gagtttgtgt  | atctgtctgt | tgtggagctc | tggaaccaggc  | ttgagggacg  | 120  |
| cctgggggtt  | ccaccacat   | ctggggcaaa | ccagaccccc | aagtcactga   | catgtcgggt  | 180  |
| tttctactaa  | tcacgttggc  | tttggcaatt | ctgtatataa | taagaagtat   | tgtgttctca  | 240  |
| cttgcaactk  | ggcagaacgg  | ttcactccaa | ggctgaatga | ctgccacggacc | atccccca    | 300  |
| gcaggggtcc  | tggggttttag | tggtttgatt | ctgagcacct | ctamgcamag   | agcccccttag | 360  |
| tgggttccct  | aactggacgg  | ctaaccctgs | tgtggaatct | gactkkwtct   | ggaccgaaga  | 420  |
| ggacaggctg  | ctctggagaa  | atccttgggc | cttgtgcctg | atgctggctc   | gggccaccct  | 480  |
| ggccaccctc  | ccttcatgcc  | ccatgggacc | aggcagcagc | atgggagggg   | gcagcttcca  | 540  |
| gaacaccctt  | ctgctagggg  | ctkctggcct | ccctgctggc | acggccacat   | ccatgggtctg | 600  |
| agtgtgtggt  | tggaaatgtt  | tatcaacacc | agtctcaca  | gcttccccag   | atgagcgaag  | 660  |
| gggaagggga  | tgggtgtgtg  | ggggattgcc | tcccttgagg | ccccagct     | cccaggatac  | 720  |
| ttgtctggcg  | agctctgcct  | gcggtggagg | ccctatgact | tgacctccat   | cttctccctg  | 780  |
| ggcccccg    | tggccctcac  | tggcaggggc | tcctgcacgc | ctgcaaggcc   | agagcctccc  | 840  |
| gccaggtgca  | ggagaagtaa  | atgcaggcca | gagataaatc | gtatttccct   | ctaactcgga  | 900  |
| tgtggagtga  | gaggaaggaa  | gcaggagtgg | agctgagtgt | tagtgagagg   | tggctgagaa  | 960  |
| ggcgggggtcc | cgcttcttgc  | ttccttgggc | atttgcctga | ggtgctgggt   | ttcagcctgg  | 1020 |

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| aaggggtgcag | cctctgcact | aagtctgggt | tggtgaacgt | tcattggcccc | caatataaac | 1080 |
| agtgttcttg  | gcgttctttg | tgactctcga |            |             |            | 1110 |

<210> 387

<211> 925

<212> DNA

<213> Homo sapiens

<400> 387

|             |            |            |              |            |            |     |
|-------------|------------|------------|--------------|------------|------------|-----|
| ggaaatagta  | ggaaagtga  | gcctccagaa | ccaagagaga   | caggagtggg | aggcaggctc | 60  |
| cagcacgtac  | acatggaaga | gaggtatgaa | ctctcattgc   | catgggcaga | gccacccaga | 120 |
| ccactgctga  | gcattctggg | aagctcccag | ggccctatca   | gtgcatggca | tggaagctgg | 180 |
| aatcacttta  | tttgaatagt | gaagtctaca | acaacctctg   | aagtctgaag | acgagaatcc | 240 |
| ttcaagggtga | caggccttgg | cccatccctg | aaccttttcc   | ctcatcctcc | caacagtcct | 300 |
| tccccaatgc  | ctcattttct | tctacttgta | gcaaaaaccatt | tctkatcaa  | ctcagaaatg | 360 |
| aacatgtctc  | cagagtatat | ccaaacatgt | ctccagaata   | cagccattca | acatccagta | 420 |
| atcaaggaga  | aggatatgca | gccttgggct | ggcttgtgcc   | ctctgcttgt | tttgtggata | 480 |
| tctggtcatc  | tccattgtat | atcagcactg | ctgcaggaga   | gaggtgtggg | agtgtcatta | 540 |
| tcttctagat  | cagatgcctg | taaagctgca | cacagaattg   | ggaccagctc | cagctaaaca | 600 |
| gtgggttgta  | gcacttactg | aggattgcaa | attaggacaa   | atcattatct | tctccctctt | 660 |
| tctctcttcc  | tcagctcttt | ctcaatcttt | actacccttt   | tacacacaca | cacacacaca | 720 |
| cacacacaaa  | cacacacact | tagactagaa | gagctattta   | acatgagaac | atgaacatct | 780 |
| agagatatgg  | tttggctata | tccccacca  | aatctcatct   | tgaattgtag | ctccaataat | 840 |
| tcccatatat  | tgtaggagg  | acttggtggg | agataattga   | ataatagggg | cagtttccca | 900 |
| catgtgttct  | catggtagt  | aataa      |              |            |            | 960 |

<210> 388

<211> 956

<212> DNA

<213> Homo sapiens

<400> 388

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gggctgcagg  | aattcggcac | gagcagagac  | ccccaccccc  | cagctgtcct | gatgccccaa  | 60  |
| gccccaaacat | aattcctggc | agctccccc   | ctccccctcc  | ccctcactct | tctgccaccc  | 120 |
| agagcttggc  | ccgcctccaa | cagccccatgt | tctattctg   | cagtttccag | aagccccccc  | 180 |
| tcaaaccag   | gtcacttccc | cagccccctcc | agcttctagt  | ccccgggtcg | tgcccatcct  | 240 |
| caccttccctg | ggctgaaaca | ccacattagg  | caccagatg   | cctctgcac  | tgaaaatctc  | 300 |
| acaagcctgg  | atgtccctga | cgccacccc   | tccggttctc  | tttctcttcc | tcagcctcct  | 360 |
| gtgggctcgg  | tttttctgt  | ccaggcttaa  | atgcccagg   | ggctgtctct | gctggccctt  | 420 |
| acttctctca  | cggggatcct | cagcggcacc  | ctgggcttca  | gtccccatgg | atggagcagc  | 480 |
| ccacgcggcc  | atctcagccc | caggcctgag  | tgtccagctg  | cttcccagac | aacttgcaag  | 540 |
| tccctcggcc  | aacactgagc | tcagagtc    | cctcctccct  | gccagggtgc | gccactacct  | 600 |
| tccctccagt  | tttcaccagg | tcttgggttc  | atcctgaact  | cctccttctt | ctctccccgt  | 660 |
| ccctgccaca  | cctcactgct | cacaagaaag  | acatcactgt  | gtccggtctc | cttttttctt  | 720 |
| ttcttttctt  | tttttttttt | tttttttgaga | cagggtttcg  | ctctgtcttc | caggctggag  | 780 |
| tacagtgggtg | cgatcttggc | tactgcctc   | ccagggttcaa | aaaattctca | tgccctcagcc | 840 |
| ttccaagtag  | ctgggactac | aggcacgcgc  | taccacaccc  | agttacattt | ttttgtgtat  | 900 |
| ttttagtaga  | gatggctttt | gccatgttgg  | ccatggctgg  | tctcaaactc | ctggcc      | 956 |

<210> 389

<211> 742

<212> DNA

<213> Homo sapiens

<400> 389

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaaacctcag | gcaagttcct | ggccatcccc | aggcctcatt | ttcccatcag | gaagaaggaa | 60  |
| ataagcacac | ctgtctcccc | agtctccctg | cctgggtcac | tgggcaggca | aatgtgtggg | 120 |



|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| agggtgattgc | aaaggtacca | gatttgccaa | atatacgctt  | gcaattaaat  | ccaaaggcct | 180 |
| gtcccacagt  | tgcttgactt | tttttaaagg | ccaattttatc | ctccttttctt | aaagactaaa | 240 |
| caattttttcc | acttcattta | ttaaaataaa | gctcttttaac | ttgcacgctt  | ttagacaaaa | 300 |
| gcaacagtac  | tctgaaatga | ccccatcact | tctcagtgag  | aagctgtgct  | cctgtttctt | 360 |
| tgtgcttctt  | gggattgcaa | gtggggcctt | tgtgagtgct  | ctgtgggcct  | ggagcagcca | 420 |
| cacggaaagg  | ctcacagctg | aaccagcag  | tagcatcacc  | tgcctttccc  | caccttggtt | 480 |
| ttttttccct  | ttctaatttg | gggtcctctt | atagctcctc  | aaatacaatg  | tactcgtgtc | 540 |
| cctcagagcc  | actgcacaga | ctgtcccctc | tccttaaaga  | gaccccgctc  | ttactctccc | 600 |
| cctcccctac  | ccmaccagt  | cagccagctg | aactctgggt  | catctttctgc | atccgggtga | 660 |
| aaggtcacct  | tccttgccag | tcaaccccca | ccctcccact  | gcagtcatca  | gagatgagca | 720 |
| gcctctaaaa  | cctgcctcgc | ag         |             |             |            | 742 |

<210> 390  
 <211> 1298  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| <400> 390  |            |            |            |            |             |      |
| ggcacgagct | gagcccagcc | cggcctgcca | tcttggaag  | ccagggcagc | atggaggtag  | 60   |
| cacagagtg  | caccagcca  | gcgtgaatgc | ataagaatct | gcacgtgaca | cagaagaaa   | 120  |
| tctcttcagt | aagtaggttt | cactggctcc | agccaaaccc | tgtggcatgt | ggcctttct   | 180  |
| gcacctgctg | aacatgccat | tcaccttgac | ccaggtagt  | gcctcaccct | cctcttgctc  | 240  |
| aaactggaaa | cctcagcatc | ctgaaatgcc | tcttcccca  | atccattgca | cacatgtgtg  | 300  |
| cctgtgtatg | cgtgtgtgtg | cacgtgtatg | aaccagccc  | ccagctgccc | actccattgc  | 360  |
| ccctaaacag | gcccctctt  | ggtgtcacct | ggcacatctc | cactggaagc | caaatggata  | 420  |
| tttctaaact | gaaatctggt | cccacctcag | aacccttcc  | acagttccct | taaagtccct  | 480  |
| ttcctcattt | acatcaggat | cttcacaatg | gggaccctg  | gtcacctccc | aaccacaaca  | 540  |
| acgctccaaa | tgagccgcca | ctgcagaaac | tcattatggc | ccgggcaga  | ctggcacatc  | 600  |
| caagtatctg | accaggctgt | tccatctgcc | aggcaggctc | tgcctctctc | ccaccacact  | 660  |
| gtctaaccct | tgcactctca | agaccctact | tagctatggc | cctgtgtgaa | aggctccctc  | 720  |
| ccatgtacct | acagccattt | gttctctctc | atgtggccct | aacaggctgg | ggttcctgga  | 780  |
| gactccatgg | ggagccaggc | atgaagatgg | catataccca | tgtgtcactc | cccagaacgt  | 840  |
| gagctgcctg | ccctggcacc | atacacaag  | ggactgacag | ccccagaatc | ccaaggggtg  | 900  |
| cacctatgca | tatgggaaag | gcatgtttac | gggtgagaat | ggtccatcgt | tgggcttcag  | 960  |
| gaggcatctg | acctgacgca | cgcctttgtc | actttgtcct | tgggcctgt  | tgaaatgcca  | 1020 |
| ctcctgcttt | acaaattcac | caactgttgc | atgagtcatt | tccacctcaa | tgagtaccag  | 1080 |
| gtccttgagg | atggggaaaa | gtaagccacc | actgtggggg | tcttgggctc | ctaggtgcag  | 1140 |
| aagaggctcc | agaaacaggc | caggctcgtg | gccatgacct | cacactagcc | ctctgggtccc | 1200 |
| tcacacgggt | ggattggggg | gctgtgtcac | gggatcttag | gatcttcaag | acaaagacct  | 1260 |
| aggacaagaa | cacaagccca | ctcccattct | tcacaggg   |            |             | 1298 |

<210> 391  
 <211> 905  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 391  |             |            |            |            |            |     |
| gaattcggca | cgagggtgatg | aataaataaa | tcaacagaga | tttaccatg  | ttttttttta | 60  |
| aactgatcta | gtttatcact  | ctcttatctc | tacaatttat | ctttcactca | agaactaaa  | 120 |
| gttatcttcc | aaaaacacag  | aatgaatcag | ctcactctcc | tcaagactct | taaatggtcc | 180 |
| ttcattactt | gttgagaaaa  | gcccagactt | gtttagtggg | gcaattaaac | tccccacaat | 240 |
| ttatctgcca | gaagactttc  | tggaaccatg | tatggttttt | ttgccctcca | acttacagtc | 300 |
| ttattggctc | attatttttt  | tctcatcatg | ccacacattt | ttgtgtcagg | taattttagt | 360 |
| cttttggcct | tgttcttact  | atcagccaac | ttcatagttg | aagtccagag | ttggttgttg | 420 |
| ttgttgttgt | tttttatcka  | tttaggtagg | agttacatt  | tttattttgt | ttgtgacagc | 480 |
| attattttct | gacacatttt  | cttcattatc | ttttaagag  | tttctttttt | aaacccatgt | 540 |
| tattcaaggt | taaacaaata  | acgagtttct | ttgtttggat | ggtatgctta | cacttacttg | 600 |

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aatatgttgt | tttttttcca | gactagccat  | tagcaagatt | cctgtggagt | gagggagtgc  | 660 |
| ccagggtagt | tctccagatt | attctgctca  | aattcttcct | cttctcatgc | tgcaagtgatg | 720 |
| aattatttct | tcaaaactat | gaccccaactg | tgtagctcca | cctttccttg | ttctcacaag  | 780 |
| agtgtacaaa | atcgttgagt | cttctgagcc  | atggctaaca | agaatcctag | ctactgcctt  | 840 |
| ccactatatc | tttccctttt | taaaaggagc  | tttcttgag  | tttagtcac  | tcaggccttc  | 900 |
| ctcga      |            |             |            |            |             | 905 |

<210> 392  
 <211> 762  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 392  |             |             |            |            |             |     |
| gtttttctcc | ttcttagtat  | cttttgcata  | tagaaaataa | ttactatgaa | attatagatt  | 60  |
| tgacgtgcaa | aggctatttc  | ttgaatttta  | ttaaaatgca | aaaagatgca | tccatgtctt  | 120 |
| ctctaaaagg | actgcgtatt  | cctccacact  | tggggaaatg | cagcttgtgc | tatttcacag  | 180 |
| gctcatcatg | cccctttttt  | ttgccaggac  | gctggttgat | taatgccatg | cttggggagt  | 240 |
| gctccagcca | gaaatgaggg  | ctatcgccctg | tgccaataa  | cagagcagat | tctcaataaa  | 300 |
| catccccttg | gtgttacact  | taatggggct  | tgcttttcca | aactgctccc | tttcttgggc  | 360 |
| tctgagcagc | tgagccgaga  | gctcgtaagc  | tctgctgccc | cagaacattg | tgcatctcytt | 420 |
| gattttgaaa | artctttcct  | gaagsctcct  | cttgggtcat | tggatcagcc | caagagcaaa  | 480 |
| ggatttaaaa | gggccaattt  | gatagggaca  | gctcatagcc | ctgtgtaaga | ccactgggca  | 540 |
| tttttctctg | ttggggaaat  | ggttactgga  | ttagcatttt | gctgtacagg | gcgggtctgca | 600 |
| agaatgtgtg | ctcttgccctg | tcctcaaagc  | aggcttgtga | ggagctttct | gttcccagcc  | 660 |
| ctgccatttc | ctcccaattg  | gctgggcag   | atgctccaga | cacagttaat | gagatgctga  | 720 |
| gtgaaacaga | gccgctggct  | cacatggcct  | cagcctcctc | ga         |             | 762 |

<210> 393  
 <211> 725  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 393   |            |            |            |            |            |     |
| aggttctaag  | cattttgctt | gacctgactc | atttaatcct | cacaaaactc | tacaagataa | 60  |
| gtatattctc  | actactttac | aggctaaaaa | tctgaggcac | agaaaagtta | ctgaagctcc | 120 |
| aaggtcacac  | tgtgtaccat | aagtggaaga | gctaggatgc | aaaccaggc  | agccgggttc | 180 |
| cagagcagtg  | ttctaactac | taccctctgt | tgctctcat  | tcatcccatg | accttctttt | 240 |
| gtcttaccta  | cactgggatg | tgtttggac  | atgcattttg | cttgttgcta | tctcattctt | 300 |
| gcagaatgca  | ttgtacttgc | tatttgtgtc | tattcacagt | tcaggttttg | ccaggcaagt | 360 |
| acaatgaagg  | aggagagggg | caaaggaatt | gagggtgcct | acaagggagt | agttagagag | 420 |
| atggatgtga  | aatctaagct | gggcaaattg | agaagtaagg | acatgatata | ggtgatggc  | 480 |
| agtaaaaaata | tgtaatgtca | gcagtttaaa | ggactggatg | gggcagatat | taattggagt | 540 |
| tgcaggacta  | aaggagttca | aaatatagga | aatgaatacc | agagacagag | agagggctga | 600 |
| agtcaaaaatg | ttggaggtgg | tacttattat | taacaacaag | gtctagagga | tgaccgcaga | 660 |
| attgggggtcc | aaggtgacac | atggctgaca | gctgtcattg | accacactgt | aatgcagaac | 720 |
| tcgta       |            |            |            |            |            | 725 |

<210> 394  
 <211> 606  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 394   |            |            |            |            |            |     |
| tgggtcccccg | ggctgcagat | tcggccgaga | attacacgaa | ttaawttatt | catgaggtta | 60  |
| catttcattt  | catatgcatg | tttccagggt | gtattctctt | gtgcaatctg | tgtatgttct | 120 |
| ttgtcttatc  | tttttctatg | ggaatatttg | ctttttattc | acttataaga | gcaatgcatg | 180 |
| tatcaagggtt | agattttaat | tttgcaacat | attttgtggc | ataatcaggt | ttaaaatgct | 240 |

|             |             |             |            |             |            |     |
|-------------|-------------|-------------|------------|-------------|------------|-----|
| tgaagttacc  | atatatgtaa  | atTTTTtctt  | catgttcttt | gcatttaagt  | gactggaaga | 300 |
| gttcattcct  | tccactgaaa  | tcaactgaata | actaccttgg | ctacttgggtg | ccaatgatga | 360 |
| agggcatcata | tttatacccc  | tcaaaggatt  | cacagtccag | gaagaagcag  | acaaacgaag | 420 |
| actttcataa  | gtgctatgga  | gagccaagga  | accatctcga | tctgctggga  | atcctgggg  | 480 |
| caggaaactg  | aggatgggac  | tgtggtccaa  | ggaggcagac | tctgaccagg  | ctgggacagg | 540 |
| gaaggggagc  | gttcagggtca | aggtggtcgg  | ccttctgtca | gagcatactg  | cattacagta | 600 |
| ctcgta      |             |             |            |             |            | 606 |

<210> 395  
 <211> 793  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 395  |            |            |            |            |            |     |
| tacgagacta | gttctctctc | gtgccgctgg | aaagtaagca | ggccaaatct | agtagggcct | 60  |
| tgggtcatcg | taagtagttt | agatatgaag | tgcgtagaaa | tccttgggga | atctgaagca | 120 |
| gaagagtggc | gtgttctgat | ttaaggttta | aaaagaacac | ttggcttttt | agttgagaa  | 180 |
| agtattgaag | tgggaagccc | agttaggagt | ttttgcagca | agaggtaagg | atgggtgtag | 240 |
| ttagatggag | aggccaggga | agcttcagag | tctgtgtgtg | tgtgagtgtg | cgtatgtgtg | 300 |
| tgcgtgtgta | taaggaacag | ctaaacaact | tgctgttgga | gtgggtgcta | ctgagagcta | 360 |
| agtactgcta | gctgctgcag | aggcogtgta | gagcagaaca | gagctgatct | ttgccttcac | 420 |
| aggtgtttga | cagttctgtt | cgtttctgag | gtgtgtacca | aaataaagta | ggctaagagc | 480 |
| atttgacttt | aagattttgt | gagctcgggg | gtgttgargg | ggatgcagcw | aaaaacagag | 540 |
| tctgttaata | acccttggtt | tatattgctt | aataacctgt | agtcttggtt | agtgggtcaa | 600 |
| aggagaggca | gcagcagatg | atctttaagg | tacctgtctt | tgagttagaa | awacatagct | 660 |
| tgaggaagtt | atgtagcttc | cctacagatt | acagctaata | gtagaaccag | acttttaggt | 720 |
| gagctcatgc | acacatcaag | tcttagcaca | ctgcctagta | tatgtctaga | gctcaataaa | 780 |
| tggtactcgt | gcc        |            |            |            |            | 793 |

<210> 396  
 <211> 426  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 396   |            |            |            |            |            |     |
| ggcacagggc  | aggagagact | tggtccatgg | ggagaagcct | gcagtataga | tgggacctcc | 60  |
| aggagcccaa  | gtagcataga | ccctgctgat | ccggggccat | tgagcagag  | gatttgggct | 120 |
| gaatgtcccc  | agagacaaaa | gggaaaggta | gatcctttcc | cttaaagatg | aaagccatcg | 180 |
| cccgggcttg  | cttattgctc | tctctcctgg | tccttccaca | tgttgtttct | gaacatttgt | 240 |
| tctggcatca  | caatccccgt | catcctgtca | tctggccctt | cccacctttc | caccttatct | 300 |
| cttgacagtgt | ctccgcgtcg | acctggcacc | tgggtgaarg | cttgctcttg | ctggtgccca | 360 |
| tagccccccag | tgtatggtct | tgamctcccc | agccatatgg | araccacct  | caggagggcc | 420 |
| cctcga      |            |            |            |            |            | 426 |

<210> 397  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (486)..(486)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (489)..(489)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (492)..(493)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (529)..(529)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (572)..(572)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (681)..(681)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (731)..(731)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (771)..(771)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (788)..(788)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (797)..(797)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (809)..(809)

<223> n equals a,t,g, or c

<400> 397

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ncgaatatgt | gtagctcagc | tgttttgaaa | atgatctggt | tgtagaaggc | cacaaagcaa | 60  |
| atattattat | cttaatctta | ttctgaattt | tcaccactaa | aaccacattc | tattgaagga | 120 |
| atatataata | aaagtgcatt | atcatatagt | gtcacaatga | gggattcagg | tgcgaaggga | 180 |
| agactcattc | ctgtgaaaac | atagcccatc | cccagcagtt | ggtagaagga | tttgctggag | 240 |

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ttcctcctct | ttgtgtggcc  | tataaaacat  | tccatgagc  | atgtggcaat | agtcacaatg | 300 |
| atagtggctc | tatctcctcc  | agtcttagca  | tcctcactca | agccacctct | tttcatagac | 360 |
| acatacttta | tgtttgaggaa | gaggtgctct  | aggtgggaca | ccctgcctgc | tccaaataat | 420 |
| tcctactgac | atccatggcc  | gcttcattct  | atctgagctg | gagatttggg | atttaggtgg | 480 |
| gcacgnagna | annaggggtt  | tggggccagt  | gtcgtttgga | tgattttgna | cagatcttcc | 540 |
| tgggggtaag | agagataggt  | gggtctaata  | anccagggaa | taaaatgcc  | aggtgtgtgt | 600 |
| atatggaaaa | tccaaggag   | aggaaattaa  | aattatccca | gattgcttat | ttaatagtca | 660 |
| ggaaactcaa | ctttcccatg  | naaggttaaga | ttccccact  | gtgtcctttt | tctttttccc | 720 |
| tgagaaattg | naccaatttc  | ctgcagtcag  | atgcaaaaaa | tcacagggtg | nctgggtcgc | 780 |
| aagtgagnct | tcatgtnctg  | tcaaacctna  | gtcacttttg | gcaggcccaa | ggtcagggtg | 840 |
| cat        |             |             |            |            |            | 843 |

<210> 398  
 <211> 2642  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 398  |             |            |             |             |             |      |
| cccccggtc  | gcaggattcg  | gcacgaggtg | acgtttacat  | agcgtgcagg  | gatggctggc  | 60   |
| cacccacc   | taatcttatt  | atgcaaatgg | gctttccacc  | tgactggcgc  | aatctgtgag  | 120  |
| ccctacctaa | atcaaacact  | gcctactcaa | gcctgcctat  | aaaatccaga  | gaactccacc  | 180  |
| agccgctctt | tccttttggg  | agccctctct | tccttttggg  | agccctctct  | tctcactaga  | 240  |
| gagagaacgg | ttctcctttc  | tctttctttt | gcctattaac  | gtcctctcct  | aaattcctca  | 300  |
| tgtgtgtccg | tgctcctaaat | ttttttggcg | ctagacgacg  | aagcccgggc  | acttacccca  | 360  |
| gacaacacca | ccacttcaat  | agaatgtaca | ggccccgcaa  | tcccaatctt  | ccccaggatg  | 420  |
| tagaaaccca | gagcagagtg  | ctttgggggt | cccctggcgg  | tggtaggatg  | tagggcatgc  | 480  |
| acagacaaat | cccattccgc  | acacgcagct | ttccctttac  | cttgggagat  | gcgcttgcca  | 540  |
| ggaatcctag | gcttcttttg  | tgtcttgttt | gtctgtatta  | cagttgctcc  | acttaatttg  | 600  |
| ttgtgcattg | gttccattct  | accagactgg | tgcaagtgtt  | ggaaacttca  | gatttgtaac  | 660  |
| tggtgcacac | caagcctgct  | tcacagtagt | gggtgccaa   | gagctgctag  | gcctatcctg  | 720  |
| tttcatccga | gaggaaaacc  | tcactaatcc | ttttcctatt  | tctaactttt  | ttcttcttcc  | 780  |
| agtccagaga | ccaaaattaa  | aatgtaaaag | gtaggattct  | acaagacaaa  | tgctgttttt  | 840  |
| tgtttctttg | ttatcatttt  | tattattatt | gtcattattg  | ttatcctata  | acttgtcatt  | 900  |
| ttcaagacaa | cctttggaga  | gaagggggaa | aaaacacatg  | ggctctgatc  | ccatctcaaa  | 960  |
| ctggaaccac | actttttgat  | tctcagtgtg | gagctgatta  | gtgctgcctg  | ggttacttcc  | 1020 |
| atcagcaaaa | acaactctgg  | tctaggactt | cctaaaataa  | cagaggccag  | aaactctttt  | 1080 |
| cctgagcttg | ccaaacttgt  | gcgtttccat | gactttgaaa  | atacctgtgc  | tttagcctgg  | 1140 |
| aacactcttc | ctactactct  | tgccacttta | aaaaattcta  | acttatccct  | caagtctcag  | 1200 |
| atgaagaagt | acttgttcta  | tgtagctccc | acggattcac  | tcagacagca  | agtaccacag  | 1260 |
| agtcagtatt | tttcaaaata  | atgcctgaga | gttccttaga  | tcagttagtc  | atgtccttcc  | 1320 |
| ctgcacacca | gctaccacca  | aagccaagcc | aataaaagcct | cgtgccgaat  | tcggcacgag  | 1380 |
| gaaaaaaacc | ctcaaaaaat  | gactgaaaac | ttcttttaaat | gtgtgtttga  | aagagacaag  | 1440 |
| gaagctcttc | gtaaaatttg  | ttcagttaat | ctaactgagg  | ccattttaaa  | aatgtaccaa  | 1500 |
| tcagcttata | tgttaaatat  | ctaagaaact | gcatttaggk  | ttttctcaac  | ctgaatctgc  | 1560 |
| agactcaagc | tatccacata  | caatttgtat | gagcacaa    | ttagaagcc   | atactgctct  | 1620 |
| gattcatctg | atttttaattg | aacccttggg | gattgactca  | atgcagctga  | ctgggttttt  | 1680 |
| cctatattaa | attgtcccta  | atgtgactgg | ctacatcata  | atattataga  | ctatggacta  | 1740 |
| tttgtcatag | atgtttctat  | gtttgcttct | ctgcaaat    | aagaaagtta  | actattttct  | 1800 |
| taaagttttg | attttctaatt | tctcgatttg | ggcatacgac  | caccactagc  | aaatgtcatc  | 1860 |
| agagtacaaa | aaatggaaac  | agaggctatc | attaataata  | cattacttca  | ctattgacgg  | 1920 |
| gatgacgtg  | ggttttgaag  | cttatgagtt | caaaagtcct  | ctttaagta   | tttttcaatt  | 1980 |
| ctgctcccga | agtggtgtg   | tgtgtgtgtg | cacacatatg  | tgtctgtgtg  | catttgtaca  | 2040 |
| gaggtttcag | cctggcttac  | atttagcaca | gtagcttcct  | ttacaggaga  | ctttttgcga  | 2100 |
| gcatcagtg  | ttcatttcac  | aactcaccat | gtgtactaat  | gctaaagata  | cagattacag  | 2160 |
| tgtaagaact | ggagtaatta  | tagccttcca | aatcctaacc  | tctcaaactt  | ccttattttca | 2220 |
| cagggcacca | ttagtttact  | tccccaaagc | tgatttcagc  | atttttagcag | atgttttgtg  | 2280 |
| aatgttgtaa | atgggtacaa  | aatggaggac | atcctaattg  | tgagagtagt  | aaatatcatt  | 2340 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| gtcatgagcc | taaggcttct  | ctatacacat | tagaagaaag | tactctctaa | agagaatggt | 2400 |
| tagaagttaa | cagggaaat   | atcactattg | taataatcat | aaaaaagcaa | ttgcacgcca | 2460 |
| gtgtagaca  | gtctctgggt  | aaccagggtg | taataatttt | actatattaa | tgaagacttc | 2520 |
| aagtcatact | ggctctactca | tttggacagt | atttgcttca | gcactaggaa | ggctgatgtc | 2580 |
| ttccttttaa | actcgagggg  | ggggcccggg | acccaattcg | ccctatcagt | gagtcgtatt | 2640 |
| ac         |             |            |            |            |            | 2642 |

<210> 399

<211> 699

<212> DNA

<213> Homo sapiens

<400> 399

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gattcggcac | gagaaacttt | taaattcttta | gttatttctt | aatacttaga | acactttaa  | 60  |
| aaaactttac | aaaacaaaag | agcagaataa  | ttatctcctt | tcaggagaat | atgacttttt | 120 |
| tttcctaagc | acactggacc | atagaggaag  | accaaaggaa | tgtacagttg | cctgctcctt | 180 |
| cctgacttgc | tgtatttgac | tctgtcccca  | ctgggtggtg | caatgctatt | aacccacac  | 240 |
| tttaacgtgg | caaatcccca | gaatctgttg  | gctggctctt | ggctagagaa | tgagcacagt | 300 |
| ttcaccctta | tggctccaga | aagagcaaga  | acacaccact | gccagccaga | agagagaaaa | 360 |
| gtcttgttct | gtctctttcc | cattgtccca  | aatagccaag | cacaggttca | accaccccaa | 420 |
| atgccaccct | tctgctgtgc | agcagccaag  | gaaaagacc  | aggaggagca | gctccaagaa | 480 |
| cctctgggca | gtcagtggcc | agatacttg   | cccaattctt | tgtgtccaag | ccacactcag | 540 |
| ctgacaaaag | ccaacacttt | gtctctcttt  | tttttttttt | cttttttttt | gagcagagtt | 600 |
| tactcttgt  | caccaggtct | ggagtgcatt  | ggcaggatct | tggctcattg | caacctccac | 660 |
| ctcccggtt  | caagcaattc | tctgtctca   | gcctctcga  |            |            | 699 |

<210> 400

<211> 1681

<212> DNA

<213> Homo sapiens

<400> 400

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| gaattcggca | cgagtcgagt | tttttattcc | tccactgaga  | atcacacaaa | aagttagaag | 60   |
| cacaaaaagt | atgattgggt | atgatttgct | ccacctcggt  | ttcttgcaac | taagtttagg | 120  |
| tgtagcatca | gggggtgga  | ttttgtggc  | actgaggaga  | ttgggtgggt | cccatcacag | 180  |
| taaggatmca | aataaaaaat | gmcaacsygt | gcattgcttg  | gtcattacca | atgagcctct | 240  |
| agtttccamc | aagaagattg | ggctctcttc | tcttcacact  | tgtccatcaa | ctctccaaca | 300  |
| gttttgatcc | ccactgtaat | taaactagta | tcttctaacc  | acaaatctt  | cactctact  | 360  |
| cagtagcgct | tggcagctga | aatcttttct | atttagaata  | tcccaccttt | ctatcttgaa | 420  |
| attttgtcca | agctaaatgc | ctcctactaa | tctctgcgta  | cctgcgggaa | cacaatgtgg | 480  |
| ctaccacatt | ggctaccagg | gctgtaggga | ggattgtctc  | aaaatcctct | ccatttatca | 540  |
| caraaaggga | ggcggaara  | gaaaraaagt | aggttatgcc  | ctgaggctca | aggctactgg | 600  |
| atggccaatc | tgtgctaggt | ttgctgggtc | gaaagtagga  | tgatatgagc | tgatatagsa | 660  |
| gagaaatata | gggtacagtt | tctaccctga | ggggctgtat  | tttagttggg | gagatacatg | 720  |
| caatgactgg | acaccaccac | caaggataag | gaagtcctgg  | gattgtgtga | aagcacagc  | 780  |
| agttcagaga | ggagaaggaa | aaagactcca | tggaaatgat  | gggaattgaa | ccaggcctgg | 840  |
| gttttccccc | tctcaggcac | actggaggct | gtttgcctac  | cctgttgcat | ctcttggtct | 900  |
| ttccaagttt | ctgtcttggt | acagactctt | tctctcttc   | ctcctcctag | aaatattggc | 960  |
| aagcttcttt | agtcatttgt | gtttctttac | attacaggcc  | agagggtgat | cttctctgat | 1020 |
| agataatggc | cctcagttaa | gactagggaa | agctattttg  | cttgctgtat | tagcgcccta | 1080 |
| ttttagaata | atcctattcc | cttgattctt | tagtattttac | aatttttcta | agtaccgatt | 1140 |
| atattttcta | agtcaaatgt | gggtaaaatt | agtgcattgt  | atcctgtgt  | tgcgcgtttc | 1200 |
| tggagtagtc | agtcctacat | atttgaacaa | taccaccctg  | gtgtaatttt | aaaaagtaag | 1260 |
| agcttgattc | tttaaaaaac | acttagccag | gcagtgtgag  | ctctctctga | ggatccctac | 1320 |
| attaggagtg | ttttacatac | atcacacaaa | aggaataatgc | gttctgaggg | gatcggggct | 1380 |
| cctccgagct | gagagctgga | cctgatgaat | tgtgacaaat  | gggcctgttt | ctgccagctg | 1440 |
| cacgttctca | gccaggtgac | gtctgaggct | gcctgccagt  | aatggtttgt | ggtttgggga | 1500 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| gcaagagggga | ggccctggac | atactcactg | gtggggaaca | ggaaaaagtc | aggcccaatc | 1560 |
| agaaatagta  | actctcctca | gtgttcccca | gctaagtaag | atcatgcatt | taccatacag | 1620 |
| tccccatcct  | aaaactcatg | aaatgaagaa | ttagtgacac | actgggggag | tagtggtctg | 1680 |
| a           |            |            |            |            |            | 1681 |

<210> 401  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 401  |            |            |             |            |            |     |
| ggcacgagtt | tcaacttgag | atgttgaggg | gacagacatc  | caaaccgtat | cattaaattt | 60  |
| aatagtttta | tgcagttttt | ttggctctag | atctgttttag | actcctgcag | tcaggtgtct | 120 |
| gtaactagcc | tctggtcctt | tttgagagtt | cacagtttgg  | tgcaaaccct | ttggatgtat | 180 |
| tatttgggaa | aatgggatat | ctggcagcct | gtgtccctgc  | ttacattat  | cctttttgct | 240 |
| gcctgcccc  | gcctcctcat | tagcatccct | gccaaaggcca | gtggagaagg | atggagatgc | 300 |
| ggtgacattc | agctgacagt | tgacacagat | tgataatagc  | taacagcaca | tctctcccc  | 360 |
| ggctccttcc | ctagtgcacc | aattagccca | gcctcatctg  | cacctgggac | tcaagttgcc | 420 |
| taaacatatt | tcatttccca | tagcagaaga | tgccatccat  | ctagagttag | actgaaaata | 480 |
| caaacaattc | agaagttgtg | actttccatg | ctctgcacac  | agaggctacc | aaatgctaag | 540 |
| ggcgcttcct | ccccagcacc | aggcttatgg | ttctaagctc  | cagaaaaata | tcaaataaac | 600 |
| cctgccc    |            |            |             |            |            | 607 |

<210> 402  
 <211> 1355  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1327)..(1327)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 402  |             |            |             |             |             |      |
| gcccctgctg | gatggcactg  | tgggtaacct | gcatacctttc | actgtgcaca  | tggtttctcat | 60   |
| gcctttacgg | agcagactcc  | ttggcaaata | aatgcctcag  | tgcaggagcc  | acacgcaagg  | 120  |
| catttccctt | ctgtgtcctc  | tttcgtgatc | ttgaggtggg  | acttgggttt  | gaaggctttg  | 180  |
| tcactcacct | ggcatgcaaa  | ctcttttggt | attgtgaact  | ctctgacagt  | gctttaagtc  | 240  |
| tggggcacga | ataaataaatt | ttccacacag | tcacaaactg  | tagggcttac  | atccagtgtg  | 300  |
| tgtgcgttat | gtctgtgtgt  | gtatccttat | ttttttgaga  | cggagtctcc  | ctctgtcacc  | 360  |
| caggctggag | tgcaagtggc  | cgatctcggc | tcactgcaac  | ctccgcctcc  | tgggttcaaa  | 420  |
| cgatttctct | gcctcagcct  | cccgagtagc | tgggattaca  | ggcaccacc   | amcacgcctg  | 480  |
| gctaattttt | gtattttttag | tagagatggg | gtttctccat  | gttggtcagg  | ctggctctga  | 540  |
| tttcctgacc | ttgtgatccg  | cctgcctcgg | cctcccaaag  | tgctgtgatt  | ataggtgtga  | 600  |
| cacaccacac | ccggtcctgt  | gtatgttttg | agacggagtc  | tcactctgtc  | accagggctg  | 660  |
| aagtgcagtg | gcaggatctc  | ttctcactgc | aacctccacc  | tcctgggctc  | aagtgattct  | 720  |
| cctgcctcag | cctcccaagt  | agctggtatt | tcagacttgc  | accatgatgc  | ctggctactt  | 780  |
| tttatatttt | tagtagagac  | ggagtttcac | cagcctggtc  | tcgaactcct  | gacctcaagt  | 840  |
| gatccaccca | ccttggcctc  | ccaaagtact | gggattacag  | acatgagcca  | tcacgacgg   | 900  |
| cccctaagtg | gatttttttag | cattctttca | ggtgggcctc  | tgtggtgaaa  | cctttttgtg  | 960  |
| acatttcaca | aacggcttct  | ccgctgtgtg | gcatttctca  | gctttctcca  | ctgccttcac  | 1020 |
| aggaaacttc | ttcccgcact  | cctggccgac | gtcgctccct  | aggtgactgt  | gcggcaaaaag | 1080 |
| ctcagacctc | aggacactgg  | tggetgttgt | ccagcctagt  | gtctgcttac  | cccgcactca  | 1140 |
| tcccgtagtc | acacgtgaag  | gcttgagggg | tctggaactt  | cctggccgta  | gcaatggact  | 1200 |
| ttctgaactt | tcttgctctt  | tcagaattgc | gttttgacct  | tgagtgtggt  | cgtgggtgac  | 1260 |
| tcgccggcct | cccgccccgg  | ggtgtggtgc | ccttggtctg  | agtcatacaca | gtgccatca   | 1320 |
| tcctgancc  | agcwtctttc  | agatcaccct | ctcga       |             |             | 1355 |

<210> 403  
 <211> 802  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (23)..(23)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (40)..(40)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (59)..(59)  
 <223> n equals a,t,g, or c

<400> 403  
 ctcaacttaaa aggggaacaaa aanctggaag ctcccacgcn ggttggcgc ccgctnttna 60  
 actagtggaa tccccccggg ttgcaggatt cggcasgaga gaagaccgag gtggccgagg 120  
 cgctgaccaa ggtgggtccc tgtctgctgc acaaccacaa acctacctct gacccccagc 180  
 cccaagcctt gtcactctgg cacagactgg tcccagtgct aggcagacct ctgagcctgg 240  
 tcacagactg accccttctt tctggataca ggctgatctt tgtcacaggc cacagacctc 300  
 tggacctctg gtcccagcca taagtggact gacctctctt tatggctgta tccctgctgt 360  
 tctggatgct cctgggggca gtgcctatag ctccagggtca tccctgagatt cagctcctgg 420  
 agtctgagag ttgtggccac agcgcagagg gtcccttggcg gggggcctg cgctgtccgc 480  
 tgcagcctgg gctctgagca gtgctatccc tagaccttac tcaggggatc ctctgaactc 540  
 tggccctgcc ctgcagcttg agctatcttt gcacagcttt gcggtgcatg gctttttaa 600  
 ggctccataa gcagcaggct ttctgcggtg attttttttt ccatctcaca ccgtatcccc 660  
 tccttgtctc ccttccccctg tctccgaggg tccatctctc tgggtctctt cttgtctctc 720  
 ctccacctct cccgaccttt ctgcccttcc tcatctcttg gggcctgacc ctgcaggctg 780  
 aggctggccg catggagctc ga 802

<210> 404  
 <211> 940  
 <212> DNA  
 <213> Homo sapiens

<400> 404  
 gtgcgatgga aagtgccttc attctagcct gacaaagggtg gggttcagtgg atggcagcaa 60  
 acacaattat tgaacagatc tgagaaaaat ttcacaattt tctcagtcct taattgcttt 120  
 aatattttaa tcttggcctt ctggaaagtc tcagggtggtg aaatcaaaaat tcatattaaa 180  
 atgcaaatgg gcaattaaat aattgargtt atttaataaa tgtatattct ttattttcat 240  
 acctgcttga atatatattg taaaggcgag ttaatttatg ctaaaaaatt atgagacttc 300  
 tgaaaaatgt tctcactcaa atgttaatca tttctttctc cactgttct tgtttgttta 360  
 gtttgttttg tgctgtgata acagaatgcc tgaaacagg taattttatat tgaaaagaga 420  
 tttattttct atacttctgg aggctaagaa atccaaagtc agggggctta tattgagcca 480  
 gggctcttct gctgtgtcat ctatggcaca aggcagaagg acaacagaac atgccagaga 540



|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| cagagagaga | cagaggccaa | gcccattcttc | ttatcaggaa  | cctattccca | taacagcatt | 600 |
| cattcattca | caagggcaga | actataatgt  | cctagtcatc  | tgtagagat  | cccacctccc | 660 |
| acactgttgc | attggggact | gtgtttccaa  | cacatgaact  | ttgggggaca | cgtccaaacc | 720 |
| atagcagacc | ctaaatttaa | acacaggata  | ataataaaca  | gtttctgtga | cagttctcac | 780 |
| actgagggaa | acaaaaacaa | acaaacaaaa  | caattagg    | actgattcac | tgctgttttt | 840 |
| ccctttctta | tagtgaaaag | aaattcagaa  | gctaaagaag  | ttcttagtaa | attaattctt | 900 |
| aaaatgctta | caatgtaagt | gtattaaaga  | ccatttttaag |            |            | 940 |

<210> 405  
 <211> 1365  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |              |             |      |
|------------|------------|------------|------------|--------------|-------------|------|
| <400> 405  |            |            |            |              |             |      |
| ggcagagcta | acccgagtga | agccacttcc | gggcttcccg | ggcgccttcc   | gcagtcctct  | 60   |
| tccgggtgat | ggcgccggg  | tgccccgat  | gtagccctgg | cgcaagatct   | cttctttttt  | 120  |
| ccacctcgcc | ttccgcggat | tcccagcttg | agaaacacct | ctttgccccg   | tcatgccaaa  | 180  |
| gaggaaagt  | accttccaag | gcgtgggaga | tgaggaggat | gaggatgaaa   | tcattgtccc  | 240  |
| caagaagaag | ctggtggacc | ctgtggctgg | gtcagggggt | cctgggagcc   | gctttaaagg  | 300  |
| caaacactct | ttggatagcg | atgaggagga | ggatgatgat | gatggggggg   | ccagcaaata  | 360  |
| tgacatcttg | gcctcagagg | atgtagaagg | tcaggaggca | gccacactcc   | ccagcgaggg  | 420  |
| gggtgttcgg | atcacacct  | ttaacctgca | ggaggagatg | gaggaaggcc   | actttgatgc  | 480  |
| cgatggcaac | tacttcttga | accgggatgc | tcagatccga | gacagctggc   | tggaacaacat | 540  |
| tgactgggtg | aagatccggg | agcgccacc  | tgccagcgc  | caggcctcag   | actcggagga  | 600  |
| ggaggacagc | ttgggccaga | cctcattgag | tgcccaagcc | ctcttgagg    | gacttttggg  | 660  |
| gctcctattg | cctagagaga | cagtggctgg | ggcactgagg | cgtctggggg   | cccaggagg   | 720  |
| aggcaaagg  | agaaaggggc | ctgggcaacc | cagttcccct | cagcgcctgg   | accgctctc   | 780  |
| cggtttggcc | gaccagatgg | tgccccggg  | caaccttggt | gtgtaccagg   | aaacaggga   | 840  |
| acggttggt  | atgcgtctga | aggttttgg  | gtgtcagacc | ctaggacccc   | acaatcccac  | 900  |
| acccccaccc | tccctggaca | tgttcgttga | ggagttggcg | gaggaggaac   | tggaacccc   | 960  |
| aacccttacc | cagagaggag | aagcagagtc | gcggggagat | ggtctgggtg   | atgtgatgtg  | 1020 |
| ggaatataag | tgggagaaca | cgggggatgc | cgagctgtat | gggcccttca   | ccagcgccca  | 1080 |
| gatgcagacc | tggttgagt  | aaggctactt | cccgacgggt | gtttattgcc   | ggaagctgga  | 1140 |
| cccccttgg  | ggtcagttct | acaactccaa | acgcattgac | tttgacctct   | acacctgagc  | 1200 |
| ctgctggggg | cccagtttgg | tgggcccttc | tttcttggac | ttgtggaggagg | caaccaag    | 1260 |
| tgtctcaggc | agcgaggaaa | ttggaggcca | tttttcagtc | aatttccctt   | tcccaataaa  | 1320 |
| agcctttagt | tgtgtaaaaa | aaaaaaaaaa | aaaaaggggc | gccgc        |             | 1365 |

<210> 406  
 <211> 2163  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |               |            |     |
|------------|------------|------------|------------|---------------|------------|-----|
| <400> 406  |            |            |            |               |            |     |
| cgccacgcg  | tcagaggcg  | cggagcccca | gccccaccca | gtgcggagcg    | cgccgcgagc | 60  |
| cccgccgyaa | gctgagcgcc | tccgcccgc  | aggcgcggcg | gcgcggggcc    | atgtactcgg | 120 |
| ggaaccgcag | cggcggccac | ggctactggg | acggcgggcg | ggccgcgggc    | gctgaggggc | 180 |
| cggcgccggc | ggggacactg | agccccgcgc | ccctcttcag | ccccggcacctac | gagcgccc   | 240 |
| tggcgtgct  | gctgggctcc | attgggctgc | tgggcgctcg | caacaacctg    | ctggtgctcg | 300 |
| tcctctacta | caagttccag | cggctccgca | ctcccactca | cctcctcctg    | gtcaacatca | 360 |
| gcatcagca  | cctgctgggt | tccctcttcg | gggtcaacct | taccttcgtg    | tcctgcttga | 420 |
| ggaacggctg | ggtgtgggac | accgtgggct | gcgtgtggga | cgggttttagc   | ggcagcctct | 480 |
| tcgggattgt | ttccattgcc | accctaaccg | tgctggccta | tgaacgttac    | attcgcgtgg | 540 |
| tccatgccag | agtgatcaat | ttttcctggg | cctggagggc | cattacctac    | atctggctct | 600 |
| actactggc  | gtgggcagga | gcacctctcc | tggtatggaa | cagtacatc     | ctggacgtac | 660 |
| acggactagg | ctgcactgtg | gactggaaat | ccaaggatgc | caacgattcc    | tcctttgtgc | 720 |
| ttttcttatt | tcttggtcgc | ctggtgggtg | ccctgggtgt | catagcccat    | tgctatggcc | 780 |

|             |             |             |            |             |              |      |
|-------------|-------------|-------------|------------|-------------|--------------|------|
| atattctata  | ttccattcga  | atgcttcggt  | gtgtggaaga | tcttcagaca  | attcaagtga   | 840  |
| tcaagattht  | aaaatatgaa  | aagaaactgg  | ccaaaatgtg | ctttttaatg  | atattcacct   | 900  |
| tcttggtctg  | ttggatgcct  | tatatcgtga  | tctgcttctt | ggtgggttaat | ggtcatggtc   | 960  |
| acctggtcac  | tccaacaata  | tctattgttt  | cgtacctctt | tgctaaatcg  | aacactgtat   | 1020 |
| acaatccagt  | gatttatgtc  | ttcatgatca  | gaaagtttg  | aagatccctt  | ttgcagcttc   | 1080 |
| tgtgcctccg  | actgctgagg  | tgccagaggc  | ctgctaaaga | cctaccagca  | gctggaagtg   | 1140 |
| aatgcagat   | cagacccatt  | gtgatgtcac  | agaaagatgg | ggacaggcca  | aagaaaaaag   | 1200 |
| tgactttcaa  | ctcttcttcc  | atcattttta  | tcatcaccag | tgatgaatca  | ctgtcagttg   | 1260 |
| acgacagcga  | caaaaccaat  | gggtccaaag  | ttgatgtaat | ccaagttcgt  | cctttgtagg   | 1320 |
| aatgaagaat  | ggcaacgaaa  | gatggggcct  | taaattggat | gccacttttg  | gactttcatc   | 1380 |
| ataagaagtg  | tctggaatac  | ccgttctatg  | taatatcaac | agaaccttgt  | ggtccagcag   | 1440 |
| gaaatccgaa  | tgcgccatat  | gctcttgggc  | ctagggaaga | ggttgaacaa  | aaacaaattc   | 1500 |
| ttttaattca  | acgggtgctt  | tacataatga  | aaaaaccact | tgtggcacac  | gatgggcatc   | 1560 |
| taacatcatc  | atcttctaata | gtgttggaaga | ttttcatttc | aaatatattt  | tttaaattac   | 1620 |
| tctattttcc  | aaaacacgta  | atgcattttt  | ctcgaaaata | ccttactgta  | aaaataactg   | 1680 |
| tcgcgtacac  | atgtgtgaag  | tagctagaac  | atactgaatt | ttttttgtac  | tggttggaactc | 1740 |
| tattcagtg   | catgtcctat  | atctgatcaa  | gttatcaagg | agataattct  | agaatgaaaa   | 1800 |
| agaaaatcct  | cttggttgaa  | acaaaagacg  | ttttatatgt | gcagtatgac  | aaagaggagt   | 1860 |
| ttcagagaca  | actttgaatc  | cttgtcagc   | tggagaccag | caccagagga  | atctacagg    | 1920 |
| caaaactccca | tatatattgct | tccccaaat   | tgctgccctt | acagactcaa  | agctcttttt   | 1980 |
| ctttgttttg  | ttgtttctct  | aaaaattttac | tgttctttgt | cgatgctata  | taagccaggg   | 2040 |
| agttctaaga  | cgccagctct  | ttgagatttg  | ctcattcccc | tgtatttccc  | acatatata    | 2100 |
| tacatatacc  | cgctaataaa  | tttatgtttg  | ttttaaaaaa | aaaaaaaaaa  | aactcgaggg   | 2160 |
| ggg         |             |             |            |             |              | 2163 |

<210> 407

<211> 1979

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (968)..(968)

<223> n equals a,t,g, or c

<400> 407

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| gctttgccag  | ggctgagccg | ggctgcctgg | tgcctcacc  | gcccccgcca  | wacaccacca  | 60   |
| tgcwgactcc  | cggcctgcgg | aactcgtagt | gcagcccctg | tgcctcccc   | ggcccctgct  | 120  |
| atcccacgca  | ggactggctt | cggccgcccg | ggccagcagc | ttgcracgtg  | tcccaggga   | 180  |
| ggcggaaatcg | ctgtgcgccc | tgagcccggg | ctcagccctt | cgttttccag  | ctgcgtcctg  | 240  |
| ctcccggccg  | sccagggagc | ccagtggcga | tgagggcact | gctggcgctt  | tgctttctcc  | 300  |
| ttggctggct  | gcgctggggc | ccggcggggc | cccagcagtc | cggagagtac  | tgccacggct  | 360  |
| gggtggacgt  | gcagggcaac | taccacgagg | gcttccagtg | cccagaggac  | ttcgacacgc  | 420  |
| tggacgctac  | catctgctgc | ggctcctgcg | cgtcccgcta | ctggtgcgcc  | gcggccgacg  | 480  |
| ccaggctgga  | gcaggggcgg | tgcaccaacg | accgcgcgca | actggagcac  | ccaggcatca  | 540  |
| ctgcgcagcc  | tgtctacgtc | ccctttctca | tgcctggctc | catcttcattg | cgttcatca   | 600  |
| tccctgggctc | tgtagtggct | atthattgtt | gcacctgttt | gagaccaag   | gagccctcgc  | 660  |
| agcagccaat  | ccgcttctca | ctccgcagct | atcacagaca | gaccctgccc  | atgacctga   | 720  |
| cctccaccag  | ccccagggca | ccctccggc  | agccagcac  | agccacgagc  | tycagcttca  | 780  |
| caggcggcty  | catccgcagg | ttcttctcag | ccatctgggt | tccctgggtg  | acccagctat  | 840  |
| ttcgcttacc  | cccttcagca | gragccccc  | ctggctggga | agagctgtcc  | agactttcag  | 900  |
| ttccagktga  | cacgcccagg | ccatgaatyc | acaactcagt | cagatggcag  | acagggtggag | 960  |
| ccctgctncc  | attgccacat | gcaattctga | gaaaatttcc | cttgaactg   | atcagtgtcw  | 1020 |
| tggaggagca  | tgctaggaaa | acacagcacc | ttctaatttg | aaagttcctg  | tctccaatca  | 1080 |
| cagaaaggct  | aaaccagaga | actgtttctg | gttttgcaaa | catgtgatca  | ttacatttca  | 1140 |
| atctatgcta  | cttttattca | aaatatgcag | cagtttgact | ttaaagttgc  | aaactggcta  | 1200 |
| aaaacgtht   | actggacatt | cagctatatt | gcttagaaaa | gggctacatg  | tttctttttc  | 1260 |

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| atataagttg | ttcattgagt  | tatgatagga  | atatattcat | aaataagcaa  | agaaaaatac  | 1320 |
| ctaattgtaa | ttatcaaagg  | ttcacttaaa  | aaattaacta | ttaggtaaac  | ttaagggggc  | 1380 |
| agtgaaaaat | ctattttatga | tttcggggagt | aacctaaca  | tgaataatat  | tagcatwatg  | 1440 |
| agamcatttm | cttttttaaat | aaatamctaa  | atttkgttta | caaymggagt  | tttyccagaa  | 1500 |
| tacaaggtty | caataatcac  | atgaggagtt  | taaagtttta | aatatatact  | cagacattca  | 1560 |
| ttgtaacaca | gagtgtatgt  | aaaatcattt  | ccccactca  | ctggaggggag | tattttattgc | 1620 |
| agactttttg | ttcagcaaca  | tttagtgttt  | cagtgaaggt | tggacagttg  | gggcttaaaa  | 1680 |
| cattttattg | taaaatgagc  | tatgttcaaa  | tgtaaatatt | tgtaatTTaa  | tgtattttacc | 1740 |
| mcattgactg | tactaattat  | ttagtagtca  | tactgtaatt | tttatgttaa  | taataactgg  | 1800 |
| agttcaaagt | ctagctattg  | gtataatcat  | ctatatttat | atatactcc   | agtgccccctg | 1860 |
| aattttatgt | ttgatgacta  | tatatTTggg  | catatatctt | gttggattag  | aataaataaa  | 1920 |
| acactttata | ttttcatgaa  | ctctaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1979 |

<210> 408

<211> 2087

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 408

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| nccccacgct  | ccgctgttgc  | tcaaaggaaa  | taggagttgg  | tgtgcttgtg  | accaaggggt  | 60   |
| tacacttcca  | gcttttaaaa  | ttctccttta  | catgtgctca  | gtgttttgtt  | ttgtgttttg  | 120  |
| gtttctgttt  | tttattttta  | ttccacattt  | gggacaaga   | atcagaatat  | ggatagctag  | 180  |
| tttaagaaac  | ttttgtgggt  | gcactgtagc  | atagatgaca  | gaatttgatg  | ttccccccat  | 240  |
| ctccaattca  | gttcagggca  | ttccacagtt  | aaacagaaat  | gggaacgtgg  | ggctcttata  | 300  |
| aatgaaatgg  | gcgctcacag  | ttttggTTTT  | cagctcttca  | tgtctgtaag  | tgtgcttttg  | 360  |
| gggaggctat  | gtctgtatgg  | tcgattctca  | gttatcacat  | ttgcctctcc  | tcccaactacc | 420  |
| ttcatggaca  | ttcagtgctg  | tttcgcactg  | cagtttagaga | gaaggggacgg | acagttgggtg | 480  |
| acactcagcc  | acatttgctac | ttttatctgt  | tctggtaaga  | agtttagatag | atggtagatt  | 540  |
| gaagcaattg  | ggtagaatta  | gttgggggaa  | tatttatgag  | ttgctgtgtt  | tgttgatttg  | 600  |
| ttccatctct  | ttcccatttt  | aactgagaat  | tgattatata  | tagctctaag  | tatataggta  | 660  |
| tttaaacaa   | cccacaagcg  | gctgtatcag  | taacatttat  | taattccact  | atagttaggg  | 720  |
| aggattttcca | ttctaaatac  | cttatttttga | gggattttata | aaacttagtt  | gtaaaagaa   | 780  |
| aagcccacat  | agtgggaata  | aattgcttca  | gccattttta  | gtatttgaga  | gcactaggga  | 840  |
| agatgttttag | tagctgtgtg  | gatgcctttt  | ttcacaccct  | gtctattgaa  | tgctgcatcc  | 900  |
| attcacgaag  | ttaaatgtta  | catgcagtta  | gtccttaatg  | tggactggat  | ctgtactttt  | 960  |
| gttttggtatt | aaaacattta  | aagatttttt  | aagtgcagct  | actccccacg  | tggcatttga  | 1020 |
| tacacataaa  | agtcatactg  | tgtgtgcaca  | aagagtacat  | ggattttcca  | gcatattgct  | 1080 |
| ttaaaaaatt  | atataaaactg | ttaaaaatatt | aacacctcag  | gctacctgct  | gtattctgtc  | 1140 |
| ccattgaccc  | ctggaattgg  | atttactgca  | agtgattgat  | aattcaatta  | tgggcttttt  | 1200 |
| ccccttta    | cttgccattt  | aaattacagt  | agaaagacaa  | aatcaagtaa  | aataaagtgt  | 1260 |
| tagataatag  | aaagagtgtt  | aagaccagcc  | cactttttctc | atgttttatgt | tctttcattt  | 1320 |
| ggaccaagaa  | tctccgcatg  | gagggttgatt | tgccactggg  | gacttttggt  | aagactatta  | 1380 |
| ggtttgcttt  | caactagatg  | ttcctgagac  | aagcagaggg  | acactgcaat  | tccccctcca  | 1440 |
| tgcctgctgt  | tctcccccat  | gtaagtcttc  | tttgaaatta  | acggatgtgt  | ctcctttgga  | 1500 |
| acagccccat  | aacaaaagag  | aactactgat  | ctgagcatag  | gaaagtagag  | gctctaccac  | 1560 |
| ttttcagttg  | aaaaagcaag  | actttctctg  | tgtttctgaa  | acaaggcaa   | atgttgtcac  | 1620 |
| agaatcagag  | atccagtctc  | acttttccac  | aaatctccaa  | atctccagtc  | ttatcttgtg  | 1680 |
| tgtctctaatg | gttttggttca | atccctttcc  | aactcttgtt  | ttcaaagcat  | ggggcctgag  | 1740 |
| tgttctccac  | tctctctaag  | aaaggagctt  | gggtggaagg  | gaccatgctg  | acctcctcca  | 1800 |
| tcagagggct  | cttccagtag  | tattctcgga  | tgcaacctcc  | atttctcagt  | taccattatt  | 1860 |
| tctgtatca   | gctttgtcct  | tcttgagggg  | atgcacagtg  | atccggccca  | ccactgttgt  | 1920 |
| tgtcttgtgc  | ttctgtctct  | tcctatggtt  | tcagggttatt | ttctgggttt  | cccctattct  | 1980 |

tcttttattt cctttttttt ttatatattgc tttcctttct a0gctttta gatttgcagg 2040  
 agatgcaagt ttcagctcaa tgtttggctt ctctcaatat ggaaatt 2087

<210> 409  
 <211> 1811  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (21)..(22)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (37)..(37)  
 <223> n equals a,t,g, or c

<400> 409  
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 tccttgggcc ttggtcagcc tggagcagtt gctcgccccc ctgtgggtggg ggcactatgg 120  
 agcgacatcg gacttgtgag gggggctctg ggggtggcaccatgccaggcc caggacacag 180  
 agcaacggca ggagtgtaac ctgcagccct gccctgagtg cccccctggc cagggtgctta 240  
 gtgcctgtgc cacctcatgc ccgtgcctct gctggcatct gcagcctggg gccatctgtg 300  
 tgcaggagcc ctgccagcct ggctgtggct gccctggagg gcagctgctg cacaatggca 360  
 cgtgtgtgcc tcccactgcc tgccccctgca cccagcattc tctgccctgg ggcctcacc 420  
 tgaccctgga agagcaggcc caggagctgc cccagggagc tgtgctcacc cggaactgca 480  
 cccgtgtgtg ctgccacggg ggagccttca gctgctccct cgttgactgt caggagtgcc 540  
 ccctggggaa acgtggcagc aggtggcccc ggggagctg gggctctgcg agcagacgtg 600  
 cctggagatg aacgccacaa agaccagag taactgcagt tcagctcgag cctcgggctg 660  
 cgtgtgccag cccgggcaact tccgcagcca ggcaggcccc tgcgtccccg aagaccactg 720  
 cgagtgtctg caccttgggc gtccccacct gcctggatct gaatggcagg aggcctgtga 780  
 gagctgcctc tgcctcagtg ggaggcctgt ctgcacccag cactgctccc cactcacctg 840  
 tgcctcagggc gaggagatgg tgcctggagcc agggagctgc tgtccctctt gccgcaggga 900  
 ggctccggag gaggagtcgc cctcctgcca gctcctcacg gagcttygaa acttcaccaa 960  
 agggacctgt tacctggacc aggtagaag gagctactgc agtgggtact gcccattccag 1020  
 caccatgtc atgccagagg agccatacct gcagagccag tgtgactgct gcagctaccg 1080  
 tctagaccg gagagccctg tgcggatcct gaacctgcgc tgtctgggtg gccacacaga 1140  
 gccctgtgtg ctgccggtca tccacagctg ccagtgcagc tcctgccagg ggacggggtt 1200  
 tgcctatgtt gccagggctg ttcttgaact cctgggctcg agtgatccac ctgcctcagc 1260  
 ctcccaatgc gctgggggta caggcaggaa cactgcacc cagccccctg acctcatctt 1320  
 ttaagcaagg ctgacattgc tatgcaggct tgttgggtgg acttgggtgag ggcacgcgtg 1380  
 tgaagtggct ggcagggtgc tagtctgtt aagcacctgc catatgataa cctgaggtcc 1440  
 cactgtgtgg cagatgaagg ggaaacagag gtggaaggca cccgtgccac ctgggtggag 1500  
 cacagtggaa ggcctggtgt tggctctggg cgtcctcctg gcaccagcct gaccactctg 1560  
 cctctcttac taaccatct ctccctcacg tgtcccctgg gaggtgactt ctcaagcgc 1620  
 taacaggctc cgctgggtga gtccacagct gtccctcttg tgatcatggg actcagcagc 1680  
 actgaccacg tccttccacg ctctctcacc tgcccccaac tggggggcca tgacttggca 1740  
 ttagcatgtt ccaaataaag tgatactggc aacaaaaaaa aaaaaaaaaa aaaaactcga 1800  
 gggggggccc g 1811

<210> 410  
 <211> 642  
 <212> DNA  
 <213> Homo sapiens

<400> 410

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ggcacgaggg ggccaccaca cccggcctgt acatgctgtt ttgcatcttg ctttatacgt      60
tggggagtg cagatgtcac catctttcgt tcttcctctg gggctggtca aatcccctg      120
agaaaaactcc tctggcctcc tggcgggggg tgaaggccag gctgccaggg ccaggctgcc      180
agcttctggg agctgcaggg gcagaggcag ggagctgtca ggcattcagc cagcaagacg      240
cactcagtac ccacttgggg ttcagaatcc ccctccctca tcttcagatg ggccagatgt      300
ccccaaaagcc agcggccctt ttctgtttca ccctgtctac agaataaacc cccagtcact      360
gggggtgggg gaagagtaag gggagagggg aaacgagatt tggaggtcta gctgctgctg      420
aaacagccct cagtctgtct ttattttgcc ttctgcaaaa ctggcctggg gttgccagct      480
ccttttgagg actttgctac cgtttctcag catccctcaa ttgctggct aggattcatg      540
ggtttttagg ggtgggtgg gattagcatg tccagctgct ttccagtttc caaagttctg      600
tccctatcat attgcctctg atttaaaaaa aaaaaaaaaa aa      642

```

```

<210> 411
<211> 606
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (9)..(9)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

```

```

<400> 411
ccccccggnc tgccaggant ttcggcacga gtctctctgt caactctatt tgtattttcta      60
taatggaac tcaaatttgc ctaactcaga ttgtagcact tttcttccaggctagtcc      120
taggaaaact cacttgtttt ttgtatggaa aactagtgtt agtagaagcc tttattcttg      180
catagccccc aaatcagctt tttcagctat aatttagtaa gtctaatttg ttcgactgaa      240
gtactttttt tttgtaataa caagtgaaaa ataatgaaga gtgtgtcctg gcgcatggct      300
cacgcctgta atcccagcac ttcgggaggc cggagcygag gcagcggatc acttgagggt      360
caggagttca agaccagctt gaccaacatg gtgaagtcct gtctctatta aaaatacaaa      420
aattagccag gtgtggtagt gcatgtctgt aatcccagct acttgggagg ctgagacagg      480
agaattgctt ggacctggga ggcggagggt gcagtgagggt gagttgcgg cattgcactc      540
cagcctggac aacaagagtg aaactttgtc tcaaaaaaaaa gaaagaaaaa aaaaaaaaaa      600
actcga      606

```

```

<210> 412
<211> 1118
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (482)..(482)
<223> n equals a,t,g, or c

```

```

<400> 412
gataaatttt gaacaccagg actctgaaaa agtttaagca tatatatgag aaatttcctg      60
aaatgttgta tgtattgtct tgtcttctta aacagaagac actgaacaga atggaatctt      120
tggttgatct ctaaggacca ccattttgag gatctcttataatgtatgat gacatttttc      180
ggttcccaca ttttgctttt tctgttttgc cttttgaaag caggccatcg tcatttggtc      240
agttcctcct ttcttaactgt ggtgtgtgcc atctctaagg ggccattctt ccactctaca      300
gctcaaaaaa gaaaatccag gaaacagctt cccaggcctg ccttctctggg cccctcagct      360

```

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| tccccaaaaca | cacaaaaccag | gacaaaaacac | cacttcagtt | ttctgcatct  | tatagtctta  | 420  |
| caaccttgag  | tttgggagga  | tcttgactca  | agagtcagat | ggtgaaatat  | ctagtacttg  | 480  |
| anccccctgt  | gtgataatgt  | caagagaact  | aaggtttggg | cccagaccca  | acaataacta  | 540  |
| ccaataggaa  | tctgggtagc  | atctttttaa  | ttcttagtc  | ttcagtcctta | tctgtaaaac  | 600  |
| atgggactgg  | tctagataat  | ttctccaact  | ccaaaattca | atcatgttct  | taatattaaa  | 660  |
| aatcctcatg  | tccatagatt  | tttgtattct  | ctccctggta | aatcctggta  | atttcacagg  | 720  |
| gatgtttgaa  | actgaaaaat  | cctgggaaaa  | gtagatttta | gtcaagtcca  | ctccaattta  | 780  |
| aaaccatact  | gaagtaccat  | tttcactcat  | aattataaat | taaaaaatga  | cactatcgag  | 840  |
| ggttgataag  | attatagaga  | gatggctatt  | ttcatgttgc | cagtgagaat  | ataaaaattcc | 900  |
| catttgggga  | aaaaatttat  | actatctatt  | caaaagttat | atgcacttaa  | tctatgactt  | 960  |
| gacaattcca  | tttctcatgt  | tcattttgga  | ggattactga | cacatatcct  | atgcaagaat  | 1020 |
| gtgattgata  | gcattgtttt  | catttgagac  | cagcctgggc | aacatagtga  | gaacctgtct  | 1080 |
| ctacaaaaaa  | tttaaaaaaa  | aaaaaaaagg  | gcggccgc   |             |             | 1118 |

<210> 413  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 413  |             |             |            |            |             |     |
| ggcacgagta | aggactgtgt  | tctttatgca  | tttcttgatc | caggcatggc | agttcctctt  | 60  |
| ttcctgtaca | tattcacact  | cctgccactt  | ctaccctttc | tcttatccct | ctgcttttca  | 120 |
| cctctgactg | taaaaagaag  | tagcagttcc  | gaaagcaaga | gttccctatg | aacacggaag  | 180 |
| aagacattgg | caacttttga  | gtacaacaæ   | tatatttaat | agagtaattt | agaacatca   | 240 |
| gccagtgaat | tttataacaag | atagtgaag   | agaaaaggaa | gattaattag | gggtagttaa  | 300 |
| ggatgccatt | aaatagccta  | gaattagggg  | agtagtcgtt | gaatagaaag | gaggccacaa  | 360 |
| atttgaggga | tataagctaa  | gaattggtaa  | gccaagaaga | aggaaaagg  | ttgggcagta  | 420 |
| aggataatga | ggaacaaaat  | agagaactca  | gaagcaatat | ctgactgtta | tcattggaag  | 480 |
| aatttttttg | cttgcttgag  | gctggatatt  | gaagtggatc | aggatacttg | agtgactatc  | 540 |
| tgatgggctt | ttggaactag  | ctctcaagag  | gtgaaaatta | gctttttttt | ctttttcttt  | 600 |
| cttttttttt | ttttttgagg  | caaggtctca  | ctgttggtga | ggctgaacct | cctgggctca  | 660 |
| agcagttgtc | ccattgcagc  | ctcctcagat  | actctgtaag | ccaaggcagg | gggaatatatt | 720 |
| tgtgctcagt | agtttgaggc  | tgtgggtgagc | taagatcaca | ctgctgtgct | cacttcagcc  | 780 |
| tgggcaacac | agtgaacccc  | cgtctccatc  | tgtttaaaaa | aaaaaaaaaa |             | 830 |

<210> 414  
 <211> 755  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (640)..(640)  
 <223> n equals a,t,g, or c

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 414  |             |            |            |            |            |     |
| ggcagaggga | aatgcatagg  | cttgtaatga | taattaagat | tcaatctcac | tctcaatgag | 60  |
| atcttgggat | tcctgcaagt  | ttgaccttca | cttatgcaat | ctgtaaaatg | aaggcattgg | 120 |
| gcttagatga | cttagatggg  | ttcttcagtg | tcttacaggc | ttacatgtta | tatttttgaa | 180 |
| ttgctataaa | gcatgttttg  | caaattctga | caccaaaaaa | tgtttttgc  | tcctatagca | 240 |
| cagataaacc | atgttttatag | tagccttact | cattctccat | tgggccttag | tggtacagt  | 300 |
| gatgtccaag | tgactcgtga  | cctctcactt | cttccacttt | tccaggtaga | agatcagcct | 360 |
| tgctcagcct | cctgggatta  | ggagatgttt | taagaaaagg | agaatttgca | tcaaagtctt | 420 |
| gacattgttt | gaggaaaaga  | ggtagatttc | ctaaaaattc | ccctgaagcc | cataggatat | 480 |
| attctcttca | aaataatgag  | tgggcccggg | gcagtggtct | acacctgtta | tcccagcact | 540 |
| ttggaaggcc | atgggtggga  | gatcacttga | ggtcaggagt | ttgagaccag | cctggccagc | 600 |
| atggtgaaac | cctgtctcta  | ctaaaaatac | aaaaattagn | ccgatgtggt | tggtgcatgc | 660 |

|            |            |            |            |           |            |     |
|------------|------------|------------|------------|-----------|------------|-----|
| ctgaggttgc | agacagccga | gatggtgcc  | ctgcactcca | gcctggcaa | cagagcgaga | 720 |
| ccctgtctca | gaaaaaaaa  | aaaaaaaaac | tcgaa      |           |            | 755 |

<210> 415  
 <211> 1939  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 415   |             |             |             |             |             |      |
| gaacacaaac  | atgcagtctg  | tagcagatgg  | taataggctg  | ayatattaca  | cttgttgatg  | 60   |
| taaactctgat | aggtttcttt  | ctctccaagg  | acagcttttt  | aaatatattaa | cagtatcaat  | 120  |
| aattttttcag | tttctgtgag  | aattttataa  | tttataattt  | gcagacttaa  | tgtataaatct | 180  |
| attttgtcct  | aacaattaca  | aatatatattt | ttatttcaga  | ttttatatat  | tcctaccaga  | 240  |
| tggagataat  | tacagcttta  | aaaattttta  | ttttttcatt  | ttattcaca   | cattgacatt  | 300  |
| aaatttttat  | ggacacataa  | taactgtaca  | tatatatggg  | gtagaatgtg  | atgttttaat  | 360  |
| acatgtactc  | aatgtgtaat  | gatcaaata   | gggtaatttg  | cataatgatt  | tttctgtagg  | 420  |
| gagaaaattc  | aaaatctact  | cttctggcta  | ttttcaaata  | tataatatgt  | tattgttaac  | 480  |
| tatactcatc  | ctactatgca  | ataggacacc  | agaacttatt  | cctgggttct  | acatccgtta  | 540  |
| aggcaaccaa  | ggattggaaa  | tattggaaaa  | aaaaattgcg  | tctgtactga  | acatgtacag  | 600  |
| acttttttct  | tgtccttatt  | ccttacacaa  | tatagtacaa  | taactatttg  | catgacattt  | 660  |
| acatcggata  | ttatgagtga  | tctagagttg  | atatgaagta  | tatgggagga  | tgtgcaaagg  | 720  |
| tgatgtgcaa  | atactatgtc  | attttatatc  | agggaacttg  | gtatcctttg  | ttaycctcag  | 780  |
| gagatcctga  | aacyagtcct  | ccatggatac  | tgagggtcga  | ctgtatagtc  | ctatcctcac  | 840  |
| ggaactttca  | ttctaattgrg | ggaagactga  | ctataaacia  | aatatatgta  | atagggtggtg | 900  |
| gtaagtaccg  | tggagaagta  | acaaatgggg  | caaagtgagt  | tatacagctc  | catycttaga  | 960  |
| aaccttggag  | tacttttctt  | agttttatact | cgtgggtggt  | tccttttgtc  | tccttttatta | 1020 |
| catgggactc  | tgacatgtgc  | ccatagctag  | gggtggcagta | ggatctaccc  | gaaaagcgtc  | 1080 |
| ctgctgatac  | aggaccaaag  | catcctgttg  | ttcttgagcc  | tataaaaaaga | gctaattggc  | 1140 |
| ttgcttctct  | taactgtggc  | ctcctacact  | gtgttttgga  | tgattgggtga | tgtcttggat  | 1200 |
| attctgtttc  | tttggaaact  | tgaatatata  | acactttact  | agggaattag  | caatggaagc  | 1260 |
| agagcaaaga  | tgtacagagg  | aaacaatgcr  | taactctgat  | ggaattgaag  | tcatgaggca  | 1320 |
| gcagagagct  | taaattasag  | ctttaaaaat  | ttttattttt  | tagaggggaat | ttamtgggga  | 1380 |
| gtaacagcag  | taatagttaa  | cggagccaga  | atgcttgagt  | catataattg  | caaagcagag  | 1440 |
| ttgggagcaa  | catagcttaa  | agagttagttg | ctgtagttcc  | tccttgggtc  | gtaggagcag  | 1500 |
| ttgtcatrtt  | mctatayagc  | tactgcatga  | agaagagttc  | ttagttaggc  | ctgggtgaac  | 1560 |
| agctcttctt  | agtattctgt  | gtgaccccat  | tygacctttt  | aacaaatccc  | taagtaaata  | 1620 |
| aatagcccct  | maggwaaact  | aagtttttct  | ctgctgtttt  | tttgcttgag  | agagctataa  | 1680 |
| ctgtaataga  | cttatatttc  | tgaacatttt  | agtgttgcc   | aatatttggt  | aatatttatg  | 1740 |
| tttcctatat  | ttgtaatgaa  | cattcttctt  | cmggtacatt  | tyttgttaaa  | ttattgttts  | 1800 |
| atgsataaaa  | gttcaccttt  | tattgtataa  | aattgactca  | gattaattta  | tacacattga  | 1860 |
| caatgggtaa  | atagagtttt  | tcagattatt  | aaaagctgaa  | ggatgcccac  | gtaagcaaaa  | 1920 |
| aaaaaaaaaa  | aaaactcga   |             |             |             |             | 1939 |

<210> 416  
 <211> 1776  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (24)..(24)  
 <223> n equals a,t,g, or c

```

<400> 416
ggcagaggna gacggggggt tctnccatgt tgcccaggct ggtctcgaac tectggactc 60
aagcaatccg cccaccttra ctcccaaaag tgctgggatt atgggygggt gtragccatt 120
gcgcccagcc ttgaagtcac gttctaaatt gtatttgaat ttgtgcctct ttgtttttcc 180
ccaaacccaaa gccctcaaat ttagtctct gtcggcttct gcagaattct ggaaaatgcc 240
agttttcctc ccccgccctt gttttccata aaacatattt atatattgtg atgaggagta 300
ctttctgaag agtacttcgt attttttttt aattgccttg tttgccttca acttccttga 360
ttttcatagt ttacatgggt gtgtgtaggg gtgtgtgtgt gtatgtgtgt ggttagggc 420
ttttttcgtt gcatgtgatg gttctgtgga catatgatcc ccacaaactg tgggagtgat 480
tggccaggcc ttgttttktt tgtttgtttg tttgtgtttt tgttcttttg aagaatagag 540
tggatattag aaaataaaatt gcattgcaaa gctcttatcg gctcatatga gagagcagg 600
tcctgccctt gaaaatgcc gtaagctata gcatatgttt tttaagactt aagcatttca 660
tgctttaaaa taccttcaca agtgaacatt acacacagaa gttcatttgg ttttcctttg 720
ttttatgggt catatagcaa taaagacccc cctccaccct gcaaccccca tccccaccg 780
ggcctttgtc cctgccttgg cttttctccc cttctcattc tcctctccc tttcctcact 840
gaaggctgtg agttgctttc aatgtgacaa cactatgatg tcatttgcaa ggatttgcca 900
ggacagactg attctgagtc ctgggtgccg tatgtgtatg cggcagtgtt gtcaggcgat 960
cttgtttgaa gctctatgtt gccataatta ccatcaagta cacactgttg gcaaaaggct 1020
aacacttgac tttagaaaaat gctgatttga gaacaaaagg aaaggctttt tttcactgct 1080
taaagtgggg tcactttgat acctttgcgg tcatgtctgt gtctgatgag tgtagaatct 1140
ctggatgtgc actgtcagtc atgtgtccac caggcctcga atatcatatg ggaaatgtca 1200
tagttaaaaa cgtacagcca ggcccggtg ctgttaatag tggaaattg tcatgttaaa 1260
aaaaaaaaaca aaacaggaac caaatgtgac cttgtgcata tattggtagc tgaaaatctt 1320
caaggctact gatgggtggc cccttaatct tgtctttgat tgcgtgtgtc aggggaaagg 1380
gtccccgttt gttcatgctg ttttgggggg tgggggggta tttgcaagaa tactcatttt 1440
gacataatag gtcctcttgt cagagatcct ctaccacaga cattaatagc tgagcaggag 1500
ccacatggat tgattgtatc cactcaccat tgacgatggc attgagcgtg gctagcttat 1560
ttccaatcct acgtgttttt gagcttgctc ttacgtttta agagggtgcca ggggtacatt 1620
tttgactga aatctaaaga tgttttaaaa aacactttc acaaaaatag tcctttgtca 1680
ttacattatt tactcatgtg tttgtacatt tttgtatgtt aatttatgaa tgattttttc 1740
agtaaaaaat acatattcaa gaacccaaaa aaaaaa 1776

```

```

<210> 417
<211> 682
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (624)..(624)
<223> n equals a,t,g, or c

```

```

<400> 417
gcaaatatta attgccattt actttgaaac ctaaaatggc caagattcca ttttcctcca 60
ggctaataaaa taataatttg caatatatag attgtatttt gtctttgaaa cgctgtgagg 120
agatcctctt aatgtggcat ggtctgcttc tatctcttgc ttctgtgttt cttgagctcc 180
gtggagatag gccccctctc ctggcttctc tgcttgagcc acataaaatg ccacttcaca 240
gctcttcctt ttgaagcctg atccagtatg catttgagc taattactgc agttgacaca 300
actccatcta aaagcgtcat gaaagattct gtaatcactg ataagaaaat gatcttgcaa 360
attattgctg tgtcctcctt tattgcctct ttaccttaac agtacagttt acaataatgt 420
aaattttttt ctaatctttc aactttaacc ctgaaattg tagatgtttt agcagtgggt 480
atgtgatatt ggcaacat aactatataa tttgtcaat attgtgggtg atacctgtaa 540
tcccagctgc tcaggagtct gaggcattg aatcacatga acccaggaga tggaggttgc 600
ggtgagctga gagcagtc ctgnactcca gccaggacga cagagtgaac ccctgtctca 660
aaaaaaaaaa aaaaaactcg ag 682

```



<210> 418  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (649)..(649)  
 <223> n equals a,t,g, or c

```
<400> 418
gctggactca gagctctaac gacagctgcc tcaaaaagaa aataacatcc cttgttcatg      60
cttgccagaa aacggcagca gaagcaggcc caagggcatc ctctacctcc tggcattcat      120
ttttgctctc gtcattctcat gcagggtgtgt ctgcttgggtg gaaactgggt ttcacaacag      180
agtccaagat gtaaaggagt ttggaaaatg tctaattgtgg cttttgatgt atgtaaggga      240
aatattttaag gcaatcctat tgtaaatgag agaggataaa gggatacaat gggagttaag      300
tgtgctgcag ttcactcgaa ctggtaaaaat gtcagcccca gttgactttg ataaatatg      360
catatgccag ctgccccagt cacagtccttg aagctccttg cctttccttg tgtgtgtggt      420
ttagtagggg ttccccattgg ctgtgtttcc atcccatttc atctcaaggg aaatctctgc      480
tgctcctgag cacctcgtgt catagatttt atactcttac agacttggaa tgcagtagag      540
gtatgtggaw ttttaggggt ttgttttttt aagaataagt aacaagaaat aacacatttc      600
ttaataatag cttttttgac atagtttgga gtctgattat atggtacant tttctaccag      660
taatataggg ttgccaataa atagaaaakg ttttctaaaa ataaatttta ttacaacaaa      720
aaaaaaaaaa aaaactcga                                     739
```

<210> 419  
 <211> 1126  
 <212> DNA  
 <213> Homo sapiens

```
<400> 419
ggcacgagat tgcctacaaa tgtcagaggt ataatggttt ggttttcatg ctggcttctc      60
acacagtcca tcacagtgat tcttgagacc agagggaggt atggaagact gtgtgttctc      120
caagggaggg actgtggtct ggtggataag agtgggagtc ccaatccttt ctccgcagat      180
gtgctagctg tgcactctgg gcaagtttct cactctcctg agcctcagcg tctttatcaa      240
tatgacgaga ataaatacag cacctgccta cctcatgggg ttgtttcagc agtcaatgag      300
atcatgtata tgaagcattt agtataccta gcaccttaata aaagctcaacaaccagtagt      360
cttattacta acaaaatgga gctagaagga tgcattagtt taaacaaaat cttgaggcag      420
atactgggag tacctgtctt tattcttcaa cttgagtctc ctcccagttt gtttggataa      480
aaactcaaat gtaatathtt taatttgggt aaaagaactt ctgagaaagg gttgaacatc      540
tatccacttg cctttttatg cctagggaac tagagatact tgttggcggc atcgcaaattg      600
ttgctgactt atgaagtact gcagtatctg aatacctttt tgtaggataa tctaaagttt      660
ccaaaaaata gtatagtgtt gtagtgaaga acttggactc ttaagccaga ttattttggt      720
cagattcaga aatccccctc actccacca ctggctgtat agcctgcc aaatcactga      780
atctctgtgt gtctgcgtcc tgggtgtgtg aatgaggaca atagtagcta ttgggtaggg      840
ttggcctggg gtctaagtga tgactgcctg taaggtgttt agaacagtat ttggtaaaca      900
actggcactc aatcagtgtt gctgtgatta tgatgattta ttccaagggt gcttgctttc      960
cagtacatca tagactacta cttgaccaa tttactagca atggagtacc tgaaagtttt      1020
acatgtgcac atttgcatga aaacccaca aaatttccct ttgaacagtg aaggggacgg      1080
cacaaagata attcttggca ctaagcttaa aaaaaaaaaa aaaaaa      1126
```

<210> 420  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

<400> 420

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| gctcccacag  | ataattgaga | atatgcagta | tttggttttc  | tgtgtctgct | ttagtttgcc  | 60  |
| taggataattg | gcttctagct | gcatccatgt | tgcagcaaaa  | gacacaattt | tattctatatt | 120 |
| tatggctgtg  | tagtattcca | tggtgtgtat | gtaccacatt  | ttctttatac | agtcaccat   | 180 |
| tgatgggcac  | cagggttgat | tttatgtctt | taaatatgtg  | ctgcaatgag | aaaaaacata  | 240 |
| ttttctacaa  | aatgatagaa | gtttaaaagg | acaagtttat  | gggttagcta | attggcttcc  | 300 |
| cattttatttc | tctaattctc | ttatatgtac | acttcttgag  | atttaatgtt | gtttgccagg  | 360 |
| aacatggtac  | tggtattgtg | ttggtaaaca | gtaagcggtag | aaaacaatgg | tgataacata  | 420 |
| gattcataca  | caatgtgctt | ttaattcttt | gaaaaaatag  | aataaattca | ggagtgaatt  | 480 |
| gctttgtaag  | ttgttatttt | taaaacttac | ctgcaatgaa  | agaggactgt | cctcctcgca  | 540 |
| gaactagaga  | agggtgacaa | gccatctccc | tattcactga  | ttggattccc | agtgtacta   | 600 |
| gttttgtgtt  | actgaaaatc | acttgagata | attctgttct  | atgtgcaaaa | aagcmaaaaa  | 660 |
| gtagaattta  | gaaatccagg | cctgctaata | gctatttagcc | atctatttat | tgttctgatt  | 720 |
| tttttttttt  | tttttgagat | ggaatctcgt | tccagcctag  | gcgacagagt | aagacctgtc  | 780 |
| tcaaaaaaaaa | aaaaaaaaaa | aaacctcgtg | ccgatttcga  | tatcaagctt | atcgataaccg | 840 |
| tcgacctcga  | g          |            |             |            |             | 851 |

<210> 421  
 <211> 747  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 421  |             |            |            |            |            |     |
| catacttttc | aacattccct  | tctgtccttt | ctttgttttt | aaagaaagct | ctgattttgt | 60  |
| ttcattttca | gctggagact  | taaatgacac | caagcaaagc | ctacttagtt | tagatctcca | 120 |
| gaaattggct | ggtggaaaaa  | aatcaaacat | gaagattgca | gtttttgttt | gtttttttct | 180 |
| gcttatcatt | tttcaaaactg | actttggaaa | aaatgaagaa | attcctagga | agcaaaggag | 240 |
| gaagatctac | cacagaaggt  | tgaggaaaag | ttcaccctca | cacaagcaca | gatcaaacag | 300 |
| acagcttgga | attcmgcaaa  | caacagtttt | tacaccagta | gcaagacttc | ctattgttaa | 360 |
| ctttgattat | agcatggagg  | aaaagtgtga | atccttttca | agttttcctg | gagtagaatc | 420 |
| aagttataat | gtgttaccag  | gaaagaaggg | acactgtttg | gtaaagggca | taaccatgta | 480 |
| caacaaagct | gtgtggctgc  | ctgagccctg | cactacctgc | ctctgctcag | atggaagagt | 540 |
| tctttgtgat | gaaaccatgt  | gccatcccca | gaggtgcccc | caaacagtta | tacctgaagg | 600 |
| ggaatgctgc | ccggtctgtc  | cgctactggg | acagagcttt | agctaagcaa | aatatcagtg | 660 |
| tgtgattaat | ctttaacttc  | catttggttt | tgttactaat | tttagattaa | aattatgata | 720 |
| cattaaaaaa | aaaaaaaaaa  | aactcga    |            |            |            | 747 |

<210> 422  
 <211> 2520  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| <400> 422   |             |            |             |            |            |     |
| acgagcgcct  | tgaggaggat  | gagtcacctg | agctgggtcc  | tgctgcagac | cctctgcctc | 60  |
| ctgcccacgg  | gcgcagcttc  | gcggcgcggg | gcgcccggca  | ccgccaactg | cgagctcaag | 120 |
| ccccacaaaa  | gcgagctgaa  | ttccttcttg | tggaaccatta | agcgagaccc | accatcttac | 180 |
| ttctttggca  | caatccatgt  | cccgtaacac | cgagtttggg  | acttcatccc | cgacaactct | 240 |
| aaggaggctt  | tctgagagag  | cagcatttg  | tactttgagt  | tggtatctac | agacccttat | 300 |
| accatctcag  | ctctcaccag  | ctgtcagatg | ctgccacagg  | gcgagaacct | ccaagatgtg | 360 |
| ctccccaggg  | acatctactg  | ccgcctcaag | cgccacctgg  | agtatgtcaa | gctcatgatg | 420 |
| cccttgtgga  | tgaccccaga  | ccagcgcggg | aaggggctct  | acgcagacta | cctcttcata | 480 |
| gctattggcg  | gaaactggga  | gcgcaagagg | cctgtctggg  | tgatgctcat | ggtcaactcc | 540 |
| ctgactgaag  | tggaacattaa | gtcccggtga | gtgcctgtct  | tagacctgtt | ccttgcccag | 600 |
| gaggctgagc  | ggctgaggaa  | acagactggg | gcagtggaaa  | aggtggaaga | gcagtgccat | 660 |
| ccattgaatg  | ggttgaactt  | ttacagggtc | atcttttgctt | tgaaccagac | cctcctgcag | 720 |
| caggaaagcc  | tgcgagcagg  | cagtcttcag | atcccctaca  | cgacggagga | tctcatcaaa | 780 |
| cactataaact | gcggggacct  | cagctccgtc | atcctcagcc  | atgacagctc | ccaggttccc | 840 |
| aattttatta  | atgccacgct  | accacctcag | gagcgcatca  | ctgctcagga | gatgacagc  | 900 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| tacttacgcc | gggagctgat | ctacaagcgg  | aatgagagaa | tagggaagcg | ggtgaaggcc | 960  |
| cttttggagg | agttccctga | caaaggcttc  | ttctttgcct | ttggagctgc | ttcacagtag | 1020 |
| ccttgaanaa | caggagcctt | gaactacagt  | agctgtgaaa | actgtttgcc | taatggttac | 1080 |
| tggaggggac | agaatgggtt | caaagttcct  | ccaaagctcc | atccttaaag | aatcatcact | 1140 |
| atttgacatg | tccaatagtt | ccctgaaatt  | tccattccca | agcttgtctt | catttgacct | 1200 |
| gactcagagc | ttgctctgtg | tgaatagccc  | tattcttagg | gtgtgtgttg | aaaacaatca | 1260 |
| gtagcagctg | tttaacatca | tagttgctgg  | aaatagcaat | attaattga  | gcttacaagg | 1320 |
| ggctgcccac | aaaacttaaa | agcaaaatcc  | catagggggt | atagaaaagc | tctaaaatat | 1380 |
| tcctagagag | tcacatgcat | gagaagagct  | gtgcacatgc | ccaggaaaga | cctgagaagg | 1440 |
| tcctaattct | tcacctctgg | ctgatcttga  | ggctctgtgt | aagcagagtg | tgaaagctaa | 1500 |
| ggcaaagtca | ttaattgcct | gttgaagcat  | caaatacatg | cccccaaact | cacacagccc | 1560 |
| ctctgcaaa  | gttgggaaac | ttgcaaggaa  | tttaaggaaa | tctctgttca | gtcattagcc | 1620 |
| agccactaaa | gtaactgagc | agatccttca  | gtgatcacac | acaacaaaga | atacagactt | 1680 |
| tacagactta | gtcctagaaa | atcactacac  | aaacagcaac | aaatgcac   | ctgggactaa | 1740 |
| gggagaggag | atgagttcca | gagttggtat  | attattttaa | tgtctagttt | tcaataaaaa | 1800 |
| caattataag | acacagagca | aaactagaaa  | gtatggccca | taccagggga | aaaacaagca | 1860 |
| accaatagaa | gctgtccttg | aggaagttaa  | tatcttgga  | ttactagaaa | atgactttta | 1920 |
| cactagttaa | tataaatatg | ttcaaaaaaac | taaaagaggc | caggtgcgga | ggctcacgcc | 1980 |
| tataatccca | gcactttggg | aggctgaagc  | aggtgggtca | cctgaggtca | ggagtttgag | 2040 |
| accagcctga | ccaatatggc | aaaaccctat  | ctctactaat | aatacaaaaa | ttagccaggc | 2100 |
| gttgtggcgc | acacctgtaa | tcccagctac  | ttgggagct  | gaagcaggag | aactgcttga | 2160 |
| aactgggagg | aagaggttgc | agtaagctga  | gatcacacca | ctgtactcca | gcctgggcca | 2220 |
| caagagtga  | actccatctc | caaaaaaaaa  | aaaaaaaaaa | aaaaccctaa | aattaaccat | 2280 |
| atctaaagaa | ttaaaggaaa | gtttgagaac  | aatatctcac | caatacagaa | tatcaataaa | 2340 |
| aatataaaaa | ttatttttaa | agaaccaaat  | aggaattctg | gaattttaa  | tgtaggaact | 2400 |
| gaaatgaaaa | attcactacg | ggggctgaac  | agtagatttg | aactggcaga | agaagaatca | 2460 |
| acatacatga | agatagggtg | attgagatga  | ttcagtatga | gaaagaaaaa | aaaaaaaaaa | 2520 |

<210> 423  
 <211> 1462  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| ggccatcggc | ggggcagtcg | cgggatgcgc  | ccgggagcca | cagcctgagc | tttagcccat  | 60   |
| gaggaggatg | tgaccgggac | tgagtcagga  | gccctctgga | agcatggaga | ctgtggtgat  | 120  |
| tgttgccata | ggtgtgctgg | ccaccatctt  | tctggcttcg | tttgagcct  | tggtgctggt  | 180  |
| ttgcaggcag | cgctactgcc | ggccgcgaga  | cctgctgcag | cgctatgatt | ctaagcccat  | 240  |
| tgtggacctc | attggtgcca | tggagaccca  | gtctgagccc | tctgagttag | aactggacga  | 300  |
| tgtcgttatc | accaaccccc | acattgaggc  | cattctggag | aatgaagact | ggatcgaaga  | 360  |
| tgccctgggt | ctcatgtccc | actgcattgc  | catcttgaag | atttgtcaca | ctctgacaga  | 420  |
| gaagcttggt | gccatgacaa | tgggctctgg  | ggccaagatg | aagacttcag | ccagtgtcag  | 480  |
| cgacatcatt | gtggtggcca | agcggatcag  | ccccagggtg | gatgatgttg | tgaagtcgat  | 540  |
| gtaccctccg | ttggacccca | aaactcctgga | cgcacggacg | actgccctgc | tcctgtctgt  | 600  |
| cagtcacctg | gtgctggtga | caaggaatgc  | ctgccatctg | acgggaggcc | tggactggat  | 660  |
| tgaccagtct | ctgtcggctg | ctgaggagca  | tttggaagtc | cttcgagaag | cagccctagc  | 720  |
| ttctgagcca | gataaaggcc | tcccaggccc  | tgaaggcttc | ctgcaggagc | agtctgcaat  | 780  |
| ttagtgccta | caggccagca | gctagcatg   | aaggcccctg | ccgccatccc | tggatggctc  | 840  |
| agcttagcct | tctacttttt | cctatagagt  | tagttgttct | ccayggctgg | agagttcagc  | 900  |
| tgtgtgtgca | tagtaaagca | ggagatcccc  | gtcagtttat | gcctcttttg | cagttgcaaa  | 960  |
| ctgtggctgg | tgagtggcag | tctaatacta  | cagttagggg | agatgccatt | cactattgc   | 1020 |
| aagaggagta | ttgaaaactg | gtggactgtc  | agctttat   | agctcaccta | gtgttttcaa  | 1080 |
| gaaaattgag | ccaccgtcta | agaaatcaag  | aggtttcaca | ttaaaattag | aatttctggc  | 1140 |
| ctctctcgat | cggtcagaat | gtgtggcaat  | tctgatctgc | attttcagaa | gaggacaatc  | 1200 |
| aattgaaact | aagtaggggt | ttcttctttt  | ggcaagactt | gtactctctc | acctggcctg  | 1260 |
| tttcatttat | ttgtattatc | tgccctggtc  | ctgaggcgtc | tgggtctctc | ctctcccttg  | 1320 |
| caggtttggg | tttgaagctg | aggaactaca  | aagttgatga | tttctttttt | atcttttatgc | 1380 |

|           |            |            |            |            |                      |      |
|-----------|------------|------------|------------|------------|----------------------|------|
| ctgcaat   | tttt       | acctagctac | cactaggtgg | atagtaaatt | tatacttatgtttccctcaa | 1440 |
| aaaaaaaaa | aaaaaactcg | ag         |            |            |                      | 1462 |

<210> 424  
 <211> 1635  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 424   |             |             |            |             |             |      |
| ggcacgaggg  | gacctgctgc  | tgggtgggcac | ccaacagctg | ggggagttcc  | agtgtctggtc | 60   |
| actagaggag  | ggcttccag   | agctggtagc  | cagctactgc | ccagaggtgg  | tggaggacgg  | 120  |
| ggtggcagac  | caaacagatg  | aggggtggcag | tgtaccgctc | attatcagca  | catcgctgt   | 180  |
| gagtgcacca  | gctggtggca  | aggccagctg  | gggtgcagac | aggctcctact | ggaaggagtt  | 240  |
| cctggtgatg  | tgcacgctct  | ttgtgctggc  | cgtgctgctc | ccagttttatt | cttgctcta   | 300  |
| ccggcaccgg  | aacagcatga  | aagtcttcc   | gaagcagggg | gaatgtgcca  | gcgtgcaccc  | 360  |
| caagacctgc  | cctgtggtgc  | tgccccctga  | gacccgcccc | ctcaacggcc  | tagggccccc  | 420  |
| tagcacccca  | ctcgatcacc  | gagggtagca  | gtccctgtca | gacagccccc  | cgggggccccg | 480  |
| agtcttctact | gagtcagaga  | agaggccact  | cagcatccaa | gacagcttcg  | tggaggtatc  | 540  |
| cccagtgctg  | ccccggcccc  | gggtccgcct  | tggctcggag | atccgtgact  | ctgtggtgtg  | 600  |
| agagctgact  | tccagaggac  | gctgccctgg  | cttcaggggc | tgtgaatgct  | cggagagggg  | 660  |
| caactggacc  | tccccctcgc  | tctgctcttc  | gtggaacacg | accgggtgc   | cgggcccttg  | 720  |
| ggagccttgg  | agccagctgg  | cctgctgctc  | tccagtcaag | tagcgaagct  | cctaccaccc  | 780  |
| agacacccaa  | acagccgtgg  | ccccagaggt  | cctggccaaa | tatggggggc  | tgcttaggtt  | 840  |
| ggtggaacag  | tgctccttat  | gtaaactgag  | ccctttgttt | agaaaacaat  | tccaaatgtg  | 900  |
| aaactagaat  | gagagggaa   | agatagcatg  | gcctgcagca | cacacggctg  | ctccagttca  | 960  |
| tggcctccca  | ggggtgctgg  | ggatgcctcc  | aaagtgggtg | tctgagacag  | agttggaaac  | 1020 |
| cctcaccaac  | tggcctcttc  | accttccaca  | ttatcccgtc | gccaccggct  | gacctgtctc  | 1080 |
| actgcagatt  | caggaccagc  | ttgggctgcg  | tgcgttctg  | cttgccagtc  | agccgaggat  | 1140 |
| gtagttgttg  | ctgccgtcgt  | cccaccacct  | cagggaccag | agggctaggt  | tggcactgcg  | 1200 |
| gccctcacca  | ggtcctgggc  | tccgacccaa  | ctcctggacc | tttccagcct  | gtatcaggct  | 1260 |
| gtggccacac  | gagaggacag  | cgcgagctca  | ggagagattt | cgtgacaatg  | tacgcctttc  | 1320 |
| cctcagaatt  | caggggaagag | actgtcgcct  | gccttccctc | ggtgttgctg  | gagaacccgt  | 1380 |
| gtgccccctc  | ccaccatata  | caccctcgtc  | ccatctttga | actcaaacac  | gaggaactaa  | 1440 |
| ctgcaccctg  | gtcctctccc  | cagtcctccc  | ttaccctccc | atccctcacc  | ttcctccact  | 1500 |
| ctaagggata  | tcaacactgc  | ccagcacagg  | ggcctgaat  | ttatgtgggt  | tttatatatt  | 1560 |
| ttttaataag  | atgcacttta  | tgtcattttt  | taataaagtc | tgaagaatta  | ctgttttaaaa | 1620 |
| aaaaaaaaa   | aaaaa       |             |            |             |             | 1635 |

<210> 425  
 <211> 2079  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 425  |            |             |            |            |            |     |
| ggcacgaggg | agggcgggct | gctgggacctg | actagattct | acgacaaggt | actttctttg | 60  |
| catgaggatt | caacaacccc | tgtggctaac  | cctctgcttg | catttactct | catcaaacgc | 120 |
| ctgcagtctg | actggaggaa | tgtggtacat  | agtctggagg | ccagtggaga | catccgagct | 180 |
| ctgaaggatg | gctatgagaa | ggtggagcaa  | gacttccag  | cctttgagga | ccttgaggga | 240 |
| gcagcaaggg | ccctgatgcg | gctgcaggac  | gtgtacatgc | tcaatgtgaa | aggcctggcc | 300 |
| cgaggtgtct | ttcagagagt | cactggctct  | gccatcactg | acctgtacag | ccccaaacgg | 360 |
| ctcttttctc | tcacagggga | tgactgcttc  | caagttggca | aggtggccta | tgacatgggg | 420 |
| gattattacc | atgccattcc | atggctggag  | gaggctgtca | gtctcttccg | aggatcttac | 480 |
| ggagagtggg | agacagagga | tgaggcaagt  | ctagaagatg | ccttggatca | cttggccttt | 540 |
| gcttatttcc | gggcaggaaa | tgtttcgtgt  | gccctcagcc | tctctcggga | gtttcttctc | 600 |
| tacagcccag | ataataagag | gatggcagg   | aatgtcttga | aatatgaaag | gctcttggca | 660 |
| gagagcccca | accacgtggt | agctgaggct  | gtcatccaga | ggcccaatat | acccacctg  | 720 |
| cagaccagag | acacctacga | ggggctatgt  | cagaccctgg | gttcccagcc | cactctctac | 780 |

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| cagatcccta  | gcctctactg  | ttcctatgag | accaattcca  | acgcctacct  | gctgctcag  | 840  |
| cccatccgga  | aggaggtcat  | ccacctggag | ccctacattg  | ctctctacca  | tgacttcgtc | 900  |
| agtgactcag  | aggctcagaa  | aattagagaa | cttgacagaac | catggctaca  | gaggtcagtg | 960  |
| gtggcatcag  | gggagaagca  | gttacaagtg | gagtaccgca  | tcagcaaaaag | tgcttggtg  | 1020 |
| aaggacactg  | ttgacctaaa  | ætggtgacc  | ctcaaccacc  | gcattgctgc  | cctcacaggc | 1080 |
| cttgatgtcc  | ggcctcccta  | tgacagagt  | ctgcagggtg  | tgaactatgg  | catcggagga | 1140 |
| cactatgagc  | ctcactttga  | ccatgctacg | tcaccaagca  | gccccctcta  | cagaatgaag | 1200 |
| tcaggaaacc  | gagttgcaac  | atztatgatc | tatctgagct  | cggtggaagc  | tgaggagcc  | 1260 |
| acagccttca  | tctatgccaa  | cctcagcgtg | cctgtgggta  | ggaatgcagc  | actgttttgg | 1320 |
| tggaacctgc  | acaggagtgg  | tgaaggggac | agtgcacac   | ttcatgctgg  | ctgtcctgtc | 1380 |
| ctgggtgggag | ataagtgggt  | ggccaacaag | tgatacatg   | agtatggaca  | ggaattccgc | 1440 |
| agaccctgca  | gctccagccc  | tgaagactga | actgtttggca | gagagaagct  | ggtggagtcc | 1500 |
| tgtggctttc  | cagagaagcc  | aggagccaaa | agctggggta  | ggagaggaga  | aagcagagca | 1560 |
| gcctcctgga  | agaaggcctt  | gtcagctttg | tctgtgcctc  | gcaaatcaga  | ggcaagggag | 1620 |
| aggttggttac | caggggacac  | tgagaatgta | catttgatct  | gccccagca   | cggaggtcag | 1680 |
| agtaggatgc  | acagtacaaa  | ggagggggga | gtggaggcct  | gagagggaag  | tttctggagt | 1740 |
| tcagatactc  | tctgtttggga | acaggacatc | tcaacagtct  | caggttcgat  | cagtggttct | 1800 |
| tttggcactt  | tgaaccttga  | ccacagggac | caagaagtgg  | caatgaggac  | acctgcagga | 1860 |
| ggggctagcc  | tgactcccag  | aactttaaga | ctttctcccc  | actgccttct  | gctgcagccc | 1920 |
| aagcagggag  | tgtccccctc  | ccagaagcat | atcccagatg  | agtgggtacat | tatataagga | 1980 |
| tttttttttaa | gttgaaaaca  | actttctttt | ctttttgtat  | gatggttttt  | taacacagtc | 2040 |
| attaaaaatg  | tttataaatc  | aaaaaaaaaa | aaaaaaaaaa  |             |            | 2079 |

<210> 426  
 <211> 2657  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| <400> 426   |             |            |            |            |             |      |
| ggcacgagga  | agaagcttca  | gctgattgag | ggcaggcagc | acagatcaac | atggagcccc  | 60   |
| accatggtag  | tctgttcag   | gtgggtccca | gtcacagatg | cctattggca | gattctcttc  | 120  |
| tccgtcctca  | aggtcaccag  | aaacctgaag | gagctggacc | taagtggaaa | ctcgctgagc  | 180  |
| cactctgcag  | tgaagagtct  | ttgtaagacc | ctgagacgcc | ctcgctgcct | cctggagacc  | 240  |
| ctgcggttgg  | ctggctgtgg  | cctcacagct | gaggactgca | aggaccttgc | ctttgggtg   | 300  |
| agagccaacc  | agacctgac   | cgagctggac | ctgagcttca | atgtgctcac | ggatgtgga   | 360  |
| gccaacacac  | tttgccagag  | actgagacag | ccgagctgca | agctacagcg | actgcagctg  | 420  |
| gtcagctgtg  | gcctcacgtc  | tgactgctgc | caggacctgg | cctctgtgct | tagtgccagc  | 480  |
| cccagcctga  | aggagctaga  | cctgcagcag | aacaacctgg | atgacgttgg | cgtgcgactg  | 540  |
| ctctgtgagg  | ggctcagcat  | cctgcctgca | aactcatacg | cctggggctg | gaccagacaa  | 600  |
| ctctgagtga  | tgagatgagg  | caggaactga | gggccttgga | gcaggagaaa | cctcagctgc  | 660  |
| tcactcttcag | cagacggaaa  | ccaagtgtga | tgaccttac  | tgaggcctgg | atacgggaga  | 720  |
| gatgagtaat  | agcacatcct  | cactcaagcg | gcagactc   | ggatcagaga | gggcggcttc  | 780  |
| ccatgttgct  | caggctaata  | tcaaactcct | ggacgtgagc | aagatcttcc | caattgctga  | 840  |
| gattgcagag  | gaaagctccc  | cagaggtagt | accggtggaa | ctcttgtgca | tgcttcttcc  | 900  |
| tgctctcaa   | ggggacctgc  | atacgaagcc | tttggggact | gacgatgact | tctggggccc  | 960  |
| cacggggcct  | gtggctactg  | aggtagttga | caaagaaaag | aacttgtacc | gagttcactt  | 1020 |
| ccctgtagct  | ggctcctacc  | gctggcccaa | cacgggtctc | tgctttgtga | tgagagaagc  | 1080 |
| ggtgaccgtt  | gagattgaat  | tctgtgtgtg | ggaccagttc | ctgggtgaga | tcaaccaca   | 1140 |
| gcacagctgg  | atgggtggcag | ggcctctgct | ggacatcaag | gctgagcctg | gagctgtgga  | 1200 |
| agctgtgcac  | ctccctcact  | ttgtggctct | ccaagggggc | catgtggaca | catccctgtt  | 1260 |
| ccaagtggcc  | cacttttaaag | aggaggggat | gctcctggag | aagccagcca | gggtggagct  | 1320 |
| gcatcacata  | gttctggaaa  | accccagctt | ctcccccttg | ggagtcctcc | tgaaaatgat  | 1380 |
| ccataatgcc  | ctgcgcttca  | ttcccgtcac | ctctgtgtgt | ttgctttacc | accgcgtcca  | 1440 |
| tcctgaggaa  | gtcaccttcc  | acctctacct | gatcccaagt | gactgctcca | ttcgggaagga | 1500 |
| actggagctc  | tgctatcgaa  | gccctggaga | agaccagctg | ttctcggagt | tctacgttgg  | 1560 |
| ccacttggga  | tcagggatca  | ggctgcaagt | gaaagacaag | aaagatgaga | ctctggtgtg  | 1620 |
| ggaggccttg  | gtgaaaccag  | gagatctcat | gcctgcaact | actctgatcc | ctccagcccc  | 1680 |

|             |            |             |            |             |            |      |
|-------------|------------|-------------|------------|-------------|------------|------|
| catatccgta  | ccttcacctc | tggatgcccc  | gcagttgctg | cactttgtgg  | accagtatcg | 1740 |
| agagcagctg  | atagcccag  | tgacatcggt  | ggaggttgct | ttggacaaac  | tgcaagaca  | 1800 |
| ggtgctgagc  | caggagcagt | acgagagggt  | gctggctgag | aacacgaggc  | ccagccagat | 1860 |
| gcggaagctg  | ttcagcttga | gccagtcctg  | ggaccggaag | tgcaaagatg  | gactctacca | 1920 |
| agccctgaag  | gagacccatc | ctcactcatt  | atggaactct | gggagaaggg  | cagcaaaaag | 1980 |
| ggactcctgc  | cactcagcag | ctgaagtatc  | aacactagcc | cttgaccctt  | gagtcctggc | 2040 |
| tttggctgac  | ccttcttttg | gtctcagttt  | ctttctctgc | aaacaagttg  | ccatctggtt | 2100 |
| tgccctccag  | cactaaagta | atggaacttt  | gatgatgcct | ttgctgggca  | ttatgtgtcc | 2160 |
| atgccaggga  | tgccacaggg | ggccccagtc  | caggtggcct | aacagcatctc | cagggaatgt | 2220 |
| ccatctggag  | ctggcaagac | ccctgcagac  | ctcatagagc | ctcatctggt  | ggccacagca | 2280 |
| gcacaagcct  | agagcctccg | gatcccattc  | aggcgcaaag | aggaatagga  | gggacatgga | 2340 |
| accattttgcc | tctggctgtg | tcacaggggtg | agccccaaaa | ttgggggttca | gcgtgggagg | 2400 |
| ccacgtggat  | tcttggcttt | gtacaggaag  | atctacaaga | gcaagccaac  | agagtaaagt | 2460 |
| ggaaggaagt  | ttattcagaa | aataaaggag  | tatcacagct | cttttagaat  | ttgtctagca | 2520 |
| ggctttccag  | tttttaccag | aaaaccctta  | taaattaaaa | attttttact  | taaatttaag | 2580 |
| aattaaaaaa  | atacaaaaaa | gaaaaaatga  | aaataaagga | atagaagtt   | acctactcca | 2640 |
| aaaaaaaaaa  | aaaaaaa    |             |            |             |            | 2657 |

<210> 427  
 <211> 2410  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 427   |             |
| ccacgcgtcc  | gcttcgacga  |
| ctctcgggac  | tgctcctgct  |
| gcccccgcc   | ccctggcccc  |
| agtcccgggc  | gccgccctgt  |
| cagcccgcg   | gggcccagag  |
| atcattcgata | gttcccgcag  |
| tcccagataa  | ttgacactct  |
| tatgctagca  | ccgtgaagat  |
| aaacaggctg  | tggtcctggat |
| cagacagcaa  | tggtatgaggc |
| atccctaagg  | tggtccatcat |
| gcggctcggg  | cccgggcctc  |
| atggagtcctc | tcaagatgat  |
| acctacgggg  | tcattgagaa  |
| ccgtgtgtgc  | ttggcacaca  |
| caccactgtg  | agtgcagcca  |
| atcgataagt  | gtgctctgaa  |
| ggctcttacc  | actgtgagtg  |
| tcggctcaag  | accaatgtgc  |
| agagatgggt  | cccatcactg  |
| acgtgttcag  | ttcgcagcga  |
| gacgacgggc  | ccgcggccta  |
| cggaggacgt  | gcgcagccat  |
| gggtgtgaag  | ccaccctggc  |
| gccaaactcg  | atgatatttt  |
| tgaattactc  | agattttttca |
| atacttcaat  | gttctctgcta |
| tagtatgagg  | atcttctaga  |
| cttttagtgct | tctaagctat  |
| gtatctcttt  | atttaccat   |
| ccattcttac  | aatgggaact  |
| agttttatta  | ttgagagtg   |
| tgaggtaaat  | ataattttaga |
| cgacacctgc  | agaagtgcgg  |
| gctctggccg  | ctgctgctgc  |
| cccgggtttg  | cggaggctgg  |
| ctctgctgtc  | cccaccccg   |
| cgcaggtgtt  | tgacaggagca |
| tgctgcggcc  | ctggagttca  |
| gctgcagata  | cacgggtggc  |
| ggacattggg  | gctccagataa |
| ctccagaccc  | actcagataa  |
| tctacaggca  | ccatgtccgg  |
| gaggcaggag  | ctcggggggc  |
| gggaggcccc  | aggaccaggt  |
| ctctacgcg   | tggttcggtga |
| cccctgagc   | agcacgtttt  |
| agattccagg  | aaaccttttg  |
| cacgtgtgtg  | tcagtgatgg  |
| ttgaacgccg  | atcagaagac  |
| tgtgaacaca  | tctgtgtgaa  |
| tacaccctga  | accaagacag  |
| agggtgcc    | agcacatttg  |
| gaggggtata  | ctctgaatgc  |
| ggctcgacg   | gctgccagca  |
| tggttccccg  | gctacacct   |
| tgaagaagca  | cgaagactcg  |
| cttccaggag  | agggccagct  |
| gggcaagttg  | caagcagatg  |
| cctggatata  | cggagagctt  |
| attgcaaatg  | ctttaatat   |
| ttcacatcct  | taagagcaaa  |
| tgattcatgg  | ggaatagaat  |
| tgatttata   | agtaagataa  |
| tttctcttga  | tagtatttat  |
| aaattataca  | agtattttaca |
| taattgctttg | ttttttgctc  |
| actttttgct  |             |

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| ggaatatcac | tgaagctgtg | atcaggggat  | tataacacat  | atcaagatca  | agtgaacact  | 2040 |
| acatgaaata | ttgtaagaaa | cacataacta  | aagacttttag | ttttgaatta  | agtgttataa  | 2100 |
| cttcttacca | agtttttggt | aaaaatccta  | cattatcttt  | actgtttcac  | ttaggattc   | 2160 |
| aatcaagaaa | attatatact | tataaatatt  | gatctaaaaa  | gttaacaaca  | aacccaatgt  | 2220 |
| cgccatttta | aagtttaagc | ttaacttttc  | ttcacttaca  | tatttagtat  | atgtatttta  | 2280 |
| tttttccgct | tgaagctta  | tagctcttag  | gagaaaaacca | tccttttaaat | tgtgactact  | 2340 |
| cattttttct | gtttgtattg | tcttttagtat | aataaaaaagt | tactatcttt  | ataaaaaaaaa | 2400 |
| aaaaaaaaaa |            |             |             |             |             | 2410 |

<210> 428  
 <211> 2131  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 428   |             |            |             |             |             |      |
| tcgaccacg   | cgtccgcgga  | cgcgtggg   | gacgcgtggg  | cgcggcctcc  | ggcgctcgg   | 60   |
| ctccgacccc  | gccgcgcgca  | ccatgcagcc | ccccagcctg  | ctgctgctcg  | tcctcgggct  | 120  |
| gctcgtcgcg  | cccgcgcgcg  | cgctcgtccg | aatcccgtcg  | cacaagttca  | cctctgtgcg  | 180  |
| ccggaccatg  | tcggagttgg  | ggggccccgt | ggaggatctg  | atcgccagag  | gccccatttc  | 240  |
| aaaatacgcc  | cagggggtgc  | ccagtgtggc | gggggggtccc | gttcgggagg  | tgctcaggaa  | 300  |
| ctacatggac  | gcgcagtact  | acggggagat | cggcacgcgg  | acgccccgcg  | agtgtttcac  | 360  |
| cgctcgtctt  | gacacgggct  | cctccaacct | gtgggtcccc  | tcgatccact  | gcaagctgct  | 420  |
| ggacatcgcc  | tgctcctacc  | accacaagta | caacagcggc  | aagtcgga    | cctacgtgaa  | 480  |
| gaacggcacc  | agcttcgaca  | tccactacgg | ctccggcagc  | ctctccgggt  | acctgagcca  | 540  |
| ggacaccgtg  | tcgggtgccct | gtaagtcggg | tctgtcgagc  | ctgggtggcg  | tcaaggtgga  | 600  |
| gaggcagacg  | ttcggggaag  | ccaccaagca | gccgggcac   | accttcacgc  | cggccaagtt  | 660  |
| cgacggcatc  | ctgggcatgg  | cctacccccg | catctcggtc  | aacaatgtgc  | ttcccgctct  | 720  |
| tgataacctg  | atgcagcaga  | agctgggtga | gaagaacatc  | ttctctttct  | acctgaacag  | 780  |
| ggaccccgcc  | gcgcagcctg  | ggggtgagct | catgctgggc  | ggcacagact  | ccaagtacta  | 840  |
| caaggggtccc | tcaacgtgac  | ccgcaaggcg | actggcagg   | tcacatgga   |             | 900  |
| acaggtggac  | gtgggcagca  | gcctgaccct | gtgcaagggg  | ggctgcgagg  | ccatcggtgga | 960  |
| cacgggcacc  | tcgctcatcg  | tgggccccgt | ggacgaggtg  | cgcgagctgc  | agaaggccat  | 1020 |
| cggggccgtg  | ccgttgatcc  | agggcgagta | catgatcccc  | tgtgagaagg  | tgtccacctt  | 1080 |
| gcccagaggtc | accctgacgc  | tgggcggcaa | accctacaag  | ctgtcgtcag  | aggactacac  | 1140 |
| gctcaaggtg  | tcgcagggcg  | ggaagtccat | ctgcttgagc  | ggcttcacgc  | gcatggacat  | 1200 |
| ccccccgccc  | ggcgggcccgc | tctggatcct | gggggacgtc  | ttcatcggcc  | gctactacac  | 1260 |
| cgtgttcgac  | cgggaccaga  | accgcgtggg | cctgcccag   | gccaccaggc  | tctagctgcc  | 1320 |
| cgcccgtctg  | ggaggacggg  | gtccggcagg | aggaggtgg   | ccgcccgcgc  | ctcccggcca  | 1380 |
| cccctgccgc  | acacactcac  | gctcagactc | acactcaaag  | cccagctctg  | caggcgccgg  | 1440 |
| gctgtcgggc  | tgccgttttg  | ttctgtggtt | tccccggcct  | tgggtgtgtct | gtctgtctag  | 1500 |
| tagagggcgg  | ggtgcggggc  | agcagccact | aggctgaccc  | cgagtctgga  | gccacgtcac  | 1560 |
| tgactgggaa  | gccccagcct  | ggctcggccg | cccacgtctt  | tgcacgcggg  | acccccctcc  | 1620 |
| ccggcccagg  | tagttcccc   | cccccccccc | agcccgtgct  | tcgggggccc  | ggctgcccag  | 1680 |
| gcaggacttc  | tggactgagc  | ccccacccca | ggccaggctg  | ttctctgggc  | ttctcctcct  | 1740 |
| gggggtctgg  | ctgggggtcca | gagcggggca | ctgctggcct  | gtcttcccgt  | gtggcccatc  | 1800 |
| gtggaaggga  | cccgcgcgag  | cccaaggaca | agcaggaagg  | gcttggaagg  | gtcgggactc  | 1860 |
| agggacaaaa  | ggcagccttg  | tgatgccttt | ggggctcctc  | tggggcttga  | ccccatctag  | 1920 |
| gagggcattt  | gctgggtgccc | ggttggggaa | gaaggggagg  | ggggggctgg  | tgccaccttc  | 1980 |
| tgtgagcttt  | tccccctctt  | agtgaccagg | agccgaagtg  | aacgtggaaa  | tacagtcgtc  | 2040 |
| tgggcctcaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2100 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | a           |             |             | 2131 |

<210> 429  
 <211> 2794  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (164)..(164)  
 <223> n equals a,t,g, or c

<400> 429

|             |             |             |            |            |            |      |
|-------------|-------------|-------------|------------|------------|------------|------|
| aaaaagaaat  | cttgcatttg  | acacatgaaa  | aagtaactaa | aagcttgcac | ggagatbaat | 60   |
| taagcccttg  | cactaaaaat  | gctggtactg  | tttaaattcc | tcccgttgac | ttcaagtggg | 120  |
| cgcttttcat  | ccgtaacatt  | gtatcacccg  | gtgcaccacc | agancgtttt | ttcgcaggaa | 180  |
| gcgaagtcac  | tctctccggc  | gtctacactt  | aacttgtata | tttgttctag | ccaatttcag | 240  |
| tcacttcaga  | aactttactg  | tggcgtaatt  | ccagttctta | ggtacgcgag | catagagtga | 300  |
| aaaaatagct  | gtgattgttc  | ttatgtaaaa  | atcaaagctc | caatggaagt | taatgaatac | 360  |
| ctttgtaata  | atggaatcta  | tttgcctttt  | atttcttaat | cttctgtttt | aaactgctgc | 420  |
| tattaaaaac  | acacccatgt  | tattagggtt  | acggaagttg | agctgtcgtt | agtttcttg  | 480  |
| gcgtccggaa  | aggtgtccgt  | gccatgggct  | tgtgaccggg | tcctggatac | accagaaaca | 540  |
| tcaccttctt  | ttgcagaaga  | agagaatcgc  | actcacaaac | gctgtcacia | ccgtctttat | 600  |
| gacatcaatc  | tcccttgttc  | cggttctctt  | tttacaaaaa | agaatttact | tcattaaaca | 660  |
| atttccgtct  | ctagtttaaa  | cagaaggtgg  | aaaaaaatag | accccggtct | agactcattt | 720  |
| tctccagtc   | acattggaat  | gggtttaaga  | atatcctctt | ccaaacaaaa | caagacgatt | 780  |
| tgtactttgt  | gtctaagatg  | tctaagatga  | aacgtttaaa | actctgatta | ccacaatttt | 840  |
| ggattttttg  | ttaaaatcaa  | atgtattttc  | aaacttactg | tgttaeata  | ttatagttaa | 900  |
| aaagtacagg  | gagagcagaa  | gccctgatct  | aagaggtgag | tcattgtcct | catgttgctg | 960  |
| ctaacttgaa  | ttgcagaaga  | gaaaatctca  | gtgccttctg | cctggctttt | tgatggagtt | 1020 |
| tgcttaacac  | ccttcatctt  | tctgtttctc  | tccatgtaac | taaatgacgt | tttaaaaatt | 1080 |
| cagtgtcgag  | gtgtctgggt  | agcacagcgg  | ttgagcctcc | gatttttggg | ttcaactcag | 1140 |
| gtcacgatct  | caggggtcatg | ggatcgagcc  | ccacaacagg | ctccacgctc | agccgggagt | 1200 |
| gtgcttaagt  | ttctcgtctt  | gcccctgccc  | ttccccttcc | cctgctgcgt | gcacctatgc | 1260 |
| actctctctc  | tcaaataaac  | aaataaatct  | ttaaaaataa | ataataaaaa | cacagtgcac | 1320 |
| accataaaaa  | attaagtaat  | atgcgttagg  | gaagcatttg | agatcatgca | tagcttatat | 1380 |
| atttcaaaaa  | ggatttggtc  | acatcagtag  | aatagataga | tataaaaaga | gcaattcttg | 1440 |
| gagcgtctgg  | gtaaagaagg  | tagtgctccg  | gctcagcagg | ctttcccgtc | aagccactga | 1500 |
| tctccacccg  | gctctcccg   | gttctctctc  | aataactgag | tgcagtctat | gagcagatgc | 1560 |
| tgccttctgc  | cacataaagt  | atccttaact  | tttactttgc | tttgagttaa | aaccagcatt | 1620 |
| gaaatgtaaa  | tcacgtcttc  | ctcatgcatg  | aaattgtgag | ggaagtcaga | gaggttctct | 1680 |
| aagagtttat  | ttagcaatga  | ggaaacagga  | caaaaggag  | gtagtcccat | agtggggagg | 1740 |
| gtgggaggcg  | gggtctgccg  | ggcagcactg  | ggtccagcgt | ctccccttcc | ctagctttct | 1800 |
| cccaattttc  | tttaggaaaa  | atgatgtcat  | agtgaatttt | cctataacag | aatgtttcta | 1860 |
| aggttcaactg | tatggaccca  | gaccccagac  | ggttgtctta | taagcgaact | tagaacggat | 1920 |
| gctgggaact  | aagtacttga  | gtgttgactt  | gctcacctgc | gtgggacaga | gggacaagcc | 1980 |
| agcaagcccc  | catgaagtga  | cgggcagccc  | cacctgggcc | ctggagagac | cgacgcaccc | 2040 |
| tctcagctgg  | ggtgcagaga  | aaggattggg  | ttgggggata | gcagtggact | gtcagaagaa | 2100 |
| cttacgggat  | cctattgtaa  | tgtaaagctat | gaatcaggct | tgctgtcctg | ggactgaggt | 2160 |
| tgtaaaccgt  | gaacgacgca  | ccaacacagg  | cagctgatgc | gtttgtcttg | gcttccaatt | 2220 |
| tgctaataata | aaaatctaga  | cttgtttcat  | gaaaacagga | catttaaaca | ttctatgaat | 2280 |
| attctccaaa  | aatatttggt  | gaaacctatg  | tacacatttc | tgttggactg | acacctagaa | 2340 |
| atcaaattgt  | tgtgacagag  | gatgtgccta  | tgttcagctt | cagtaaatac | tgccggagag | 2400 |
| atctctgaat  | gataaacagt  | taacggaaaa  | tcgcacaaaa | ccaggctgtt | ggaggcaaca | 2460 |
| acccattggg  | ctagtttctg  | gtggcctgct  | gcagccacgc | aggcgagcac | tgggcttcag | 2520 |
| actgcacggg  | actctctttg  | tccactgtgc  | ctgtgcctgg | ccccacacca | ggatgctggc | 2580 |
| gattatcaaa  | tacactttac  | tggtgattac  | ctttgagcat | atttgctttc | acaaatcagt | 2640 |
| tctgtaactt  | tgtgtgcatt  | gggctaaatt  | ttacaacta  | atcattgggt | aaaaggaagt | 2700 |
| ggcctaaggt  | ccccagtcct  | gctgatatca  | ggcagctgc  | tcctttgggg | ttcctgtct  | 2760 |
| tccatgggtg  | aagcatggga  | gtgagggggc  | ccat       |            |            | 2794 |

<210> 430  
 <211> 2048  
 <212> DNA



<213> Homo sapiens

<400> 430

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acgcgtccgg gaaaggagac gctggtgatg gggttaggaa aaagtgggac tcctccccac      60
gaccattgct attatccaga tcaattctaa ggattcgggt tctgccattt ctgacagctg      120
cttgaggccg agtgaacgtg gttttggaag attgcttaaa caaagaatgg aggccagagt      180
ggcgacgca ttgcagaaaa ggcaagtgtc acttctttgt gtgtttctgg gagtgtcttg      240
ggctggcgca gaacctcttc ggtattttgt ggcagaggaa acggagagag ggactttct      300
ggccaacctg gcaattgatc tggggttagg ggtggaggaa ctgtcagctc ggggatgtag      360
aattgtttca gatgagacca taggattttt actcctcaat ccgcttactg gtgatttact      420
tctaaatgag aaattagacc gagaggaact gtgtggcccc acagagccat gtgtgttgcc      480
tttccagttg ttacttgaa agccttttca gattttccgt gctgaactat gggtcagaga      540
catcaacgat cattctccag tatttctaga tagagagatt accttgaaca tattagaaag      600
taccactcca ggggcaacat ttctcctaga aagtgcacat gattcagatg ttggaatcaa      660
caacctgaga aactacacca tcagctccaa tgtttatttc catattaag tccatgataa      720
cggggaaggg aatgtttatt ccgaattggt actagataaa gtgctggatc gtgaagaggt      780
tcctgagctg cgtttaaccc tcaccggctt ggatggcggt tctccgcccc gatccggaac      840
caccctcata cgcctcctgg ttttgacat aaatgacaac gtccctgaat ttgtagagtc      900
gctttacaag gtccagggtc ctgagaacag ccctgttggt tccctgggtg tcaactgtgc      960
agctagagat ttagataccg gaagtaatgg agaaatcgct tatgcathtt ttacgctac      1020
tgaagaact ctcaaaacgt ttogaatcaa ttcaacatct ggcaatcttc atcttaaagc      1080
cgaattgaac tacgaggcaa tacaactta tacattaact attaggcca aagatggtgg      1140
agggctttct ggaaaatgta ctgtggtggt ccatgtaaca gatataaacg ataataccacc      1200
agaactgtc atgtcatcac ttactagccc aatcccagaa aactcaccag agacagtagt      1260
cgctgttttt aggattagag acagagattc agggacaat gcaaagatgg tgtgctccat      1320
ccaagaccat ctccccttcg tcctgaagcc atcagtagag aatttctaca ccttggtaac      1380
agagagagca ctgacagag aagaaagaac cgagtacaac atcaccatca ccgtcaccga      1440
cctggggacc ccaggtga aaaccagca caacctcag gtgaccgtgt ccgacgtcaa      1500
cgacaacgcc ccgacctta ccagacgac ttacaccdg cgcgtccgcg agaacaacag      1560
ccccgcctg cacatcgga gcgtgagcgc caccgacaga gactcgggcg ccaacgcccc      1620
ggtcacctac tcgctgtgc cgccccacga ccgcagctg ccgctgggct cgctggtgtc      1680
catcaacgcg gacaacgggc agctgttcgc gtcagggtcg ctggatttcg aggcgctgca      1740
ggcgttcgag ttccgctgg gcgcggccga ccgcggtcg ccggcgctca gcagccaggc      1800
gtcgtgtgc gtgctggtg cggacgcaa cgacaacgcg ccgttcgtgc tgtacccgt      1860
gcagaacggc tcggcgccct gcaccgagct ggtgcccg gcggccgagg cgggctacct      1920
ggtggccaag gtggtggcgg tggacggcga ctgggccag aacgcctggc tgtcgtaaca      1980
gctgtcaag gccacggagc ccgggctgtt cggcgtgtgg gcgcacaacg gcgaggtgcg      2040
cacggcgc                                     2048
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<210> 431

<211> 2406

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1934)..(1934)

<223> n equals a,t,g, or c

<400> 431

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ctgatgttac tactgcagtc tttatttttt ccatgagct gggggtcggg tgggggaggg      120
aaagggaggg atgaccttcc tagggagag ccacgacct gtcctgtctt tgatcgctc      180
tttgacattt ttgcaaaaat accactagt gaaagtcagg ctagtgtgc tcgtattgga      240
atagcagcct cacactggcg tctggactgt tctgtagat gaatgcaagc ggactgtctg      300
tctttaatct aacttattgc tagagaatag gtttttaaga cgaaaagaaa actgaaagg      360
gattggccct cattcagtga gttctgtggt tccagtaagg atttgtatgt acatacgtc      420
```

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| ttgtcttacg | ttttgggtac | tcttgtctca  | tctgttttag  | ctgtgcgttt  | cttttcaggg  | 480  |
| tgtactcgac | cagccatgga | ctagtgtaaa  | tcccgaacgg  | acagacttgg  | aacataaggc  | 540  |
| gcgttgatcc | ttatggttta | ggcctggcca  | gtttcccagag | tctcggatta  | gctgacagta  | 600  |
| ttaacactaa | attgcagttt | acagtatttc  | tacatgacag  | ccatacgtaa  | catcaagcca  | 660  |
| ttgatttgtg | attttccttt | gctagtttac  | tttggtcttg  | catccgtagt  | cagccttate  | 720  |
| caggttgggt | tttgcgtgtc | gocgtctccc  | aggccacaag  | gcttgccctga | gggaatcgc   | 780  |
| agctcctttt | aggttttggt | attaggtgct  | tggcaggtgg  | ctgtgggatt  | tgtacccttc  | 840  |
| ttcctcttaa | ctcaaatcca | ccgcaaaaat  | gatgaatcac  | tttaatagaa  | acgttaaaca  | 900  |
| ccacaaaaat | agagaaaatt | caggtctgta  | tgtcattgat  | tgtgttgata  | ttttcagaga  | 960  |
| actcctgatt | tttaagctgc | cacgctcctt  | cctcagggat  | cacgctgcca  | tcactcctga  | 1020 |
| gtgttccccg | ctggaccttc | tgctgggtgg  | tctcgggacg  | gtggagacgc  | cgttgagctg  | 1080 |
| gagaagctgg | gcagtcattc | tgaggaaggt  | tgtggtgcag  | tgtgtggaaa  | tttaggtgct  | 1140 |
| agaagcttac | tggtagaaaa | acccaaaagg  | aagagaagag  | ctcttcgttt  | cataagcgct  | 1200 |
| ctgtccgatt | tcgggagcct | cgtaagcatg  | tccgtttttc  | ctccccggaa  | acactccttc  | 1260 |
| cctaagcagt | tgtttagtag | aaacgaacta  | aaggcattat  | cagataataa  | atcactccta  | 1320 |
| tttgaccaag | actttttcta | catttttttt  | ttttcttttt  | aatgaaagca  | tcaaagcgag  | 1380 |
| agagtccctt | ctctcttgta | cagttgacac  | atgctctgga  | atcgaaggaa  | actacgttgc  | 1440 |
| tgtttccaca | aatttgttct | cagtttagcc  | ttaggtcctt  | cattcttatt  | ttggaaaaat  | 1500 |
| ctgtctgaaa | aacgtgacct | gtcgagtgtg  | tgttcagcct  | ttctttacaa  | gaccagaaac  | 1560 |
| ggtgtgaact | cccagatat  | ggaggttaata | acgccagact  | gctttgttg   | gttgctgcgg  | 1620 |
| tttagtcaag | gagaggtatg | aggaataatt  | gaggaaacac  | tgactgttgc  | tttttgctct  | 1680 |
| ttaccagaat | cggacttaag | agttgggaaa  | tgagtatgtg  | tgacaggatc  | caggtgaccg  | 1740 |
| tgaggatgag | aacagtgatg | ccctggagca  | tggcacagtc  | taccagcat   | gactttcctt  | 1800 |
| agaaggttcc | ctccatacgc | tagagcaaaa  | gtcccaatta  | actgaaccct  | agcagaacta  | 1860 |
| gaagagagct | gtacagcttt | tgtgccatca  | ccggggccct  | aaagtcaatg  | ccatggatgg  | 1920 |
| gaaattatgg | gggnttgggg | gggaggggta  | ggtggggcct  | tccttaactt  | atcttcatgt  | 1980 |
| ccagttagca | gtgttttgtc | cttccttgta  | gcctttggaa  | atgatttact  | ggaattacaa  | 2040 |
| aacctatttt | ttcttttaaa | tttcagcttt  | ggctctggct  | gctttttaga  | ataatgcaag  | 2100 |
| ataacagtta | tacctgaggg | ctaaaaatga  | agagggaaac  | ggagacttga  | tatttaagca  | 2160 |
| gcctgaatgg | tttcttttct | tttcttttct  | tttaaagaaa  | tgcacttgcc  | tctgatactg  | 2220 |
| tctctccagt | gaaatgatta | ctcctccatt  | actctattga  | tacaatattg  | tgcattgctag | 2280 |
| tgttgatatt | ctatacagta | gcttgaaatt  | tattaaactta | tactgtaggt  | gttatgtatt  | 2340 |
| cctatgacaa | aaaaaattaa | gtcttcaaat  | tttaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 2400 |
| aaaaaa     |            |             |             |             |             | 2406 |

<210> 432  
 <211> 1669  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 432   |             |            |            |             |            |     |
| ccacgcgtcc  | ggcacggtcg  | ccaggcaccg | ctgaccgagg | cctgctggga  | ttccagaatt | 60  |
| ggagagggag  | gcaccatgaa  | gactctcctg | ctgctggtgg | ggctgctgct  | gacctgggag | 120 |
| aatggacggg  | ttctggggaga | ccagatggtc | tcagacactg | agctccagga  | aatgtccacc | 180 |
| gaggggagta  | agtacattaa  | tcgggaaatt | aaaaatgctc | tcaagggggg  | gaagcagata | 240 |
| aagacactaa  | tagaacaac   | aaacgaggag | cgcaaatccc | tgtcaccaa   | cttggagaa  | 300 |
| gccaagaaga  | agaaagagga  | tgccctgaat | gacaccaagg | attcagaaat  | gaagctgaag | 360 |
| gcgtcgacgg  | gggtgtgcaa  | tgacaccatg | atggccctct | gggaggagtg  | taagccctgc | 420 |
| ctgaaacaga  | cctgtatgaa  | gttctacgcc | cgagtctgca | gaagcagcac  | agggctgggt | 480 |
| ggccaccag   | ttgaggagtt  | cctgaaccag | agttctccct | tctacttctg  | gattaatggc | 540 |
| gaccgcatcg  | actccctgct  | ggagaacgac | cggcagcaga | cccacgccct  | ggatgtcatg | 600 |
| caggacagtt  | tcgaccgggc  | atccagcatc | attgatgagc | tgttccagga  | cagattcttc | 660 |
| accctgtagg  | cccaggaccc  | tttccacttc | tcacccttca | gctcattcca  | gcggaggcct | 720 |
| ttttcttca   | atatcaagca  | ccgdttgcc  | cggaacataa | tgcctttccc  | tggctaccag | 780 |
| cccttgaaatt | tccacgacat  | gtttcagccc | ttcttcgaca | tgataacca   | ggctcagcag | 840 |
| gccatggatg  | ttaacctgca  | cagactcccc | cactttccaa | tggaaattcac | agaagaagac | 900 |
| aaccaggacg  | gcgccgtgtg  | caaggagatc | cgtcacaact | ccacaggggtg | cctgagatg  | 960 |

|            |            |            |             |                       |            |      |
|------------|------------|------------|-------------|-----------------------|------------|------|
| aaggaccagt | gtgaaaagt  | ccgggagatc | ttgtctgtgg  | actgttcgtc            | caacaacccc | 1020 |
| gctcaggtcc | agctgcgaca | ggaacttaat | aattccctcc  | agattgcaga            | gaagttcacc | 1080 |
| aagcttgtac | gacgagctgc | tgcagtccta | ccaggagaag  | atgttcaaca            | cgtcctccct | 1140 |
| gctgaagcag | ctggacgag  | agtttagctg | ggtgtcccag  | ctggcgaatc            | tactcagac  | 1200 |
| tgaggacccg | ttctatctcc | aggtcacgac | ggtgagttcc  | cagacttctg            | actccagtgc | 1260 |
| tccctctggc | gtcactaagg | tggttgtgaa | gctctttgat  | tccgacccca            | tcaccgtgat | 1320 |
| cctcccagaa | gacctctcca | ggaacaatcc | taaatttatg  | gagaccgtggcagagaaaagc |            | 1380 |
| ccttcaggaa | taccgccaga | agagccggga | ggagtggat   | gggaacactg            | cctctccaca | 1440 |
| tggcaggtgt | ctgagttctg | tcgccccgc  | gatgagcgat  | aggcccctag            | agagagctct | 1500 |
| gcatgtcacc | gagtgaccgg | gccttccctg | aggccctcct  | gtcccctcac            | cccgcctgtc | 1560 |
| ctccctctgg | actctgcatt | gtaacaccgt | gttactgat   | catgggaaga            | actcctgtgt | 1620 |
| gccactaact | caataaaacc | accagtaatc | tgaaaaaaaaa | aaaaaaaaa             |            | 1669 |

<210> 433

<211> 1491

<212> DNA

<213> Homo sapiens

<400> 433

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| ccacgcgtcc  | gggagccatg  | gcgccgtccg | ggccgctgct | gctgggtgc  | ctcgtgccgc | 60   |
| tggccgccgc  | gcgggccggg  | ccctacttcc | gtcccggccg | gggctgccgc | ctgcccctgc | 120  |
| ggggggacca  | gctgtcgggg  | ctggggcgca | ggacctacc  | ccggccgcac | gagtacctgt | 180  |
| ccccatctga  | cctgcccagg  | agctgggact | ggcgcaacgt | gaacggggtc | aactatgcc  | 240  |
| gtgccaccag  | gaaccagcat  | atccccag   | actgtggctc | ctgctggggc | cacggcagca | 300  |
| ccagtgccat  | ggcgggaccg  | gatcaacatc | aagagaaagg | gggcgtggcc | ctccaccctg | 360  |
| ctgtccgtgc  | agcacgtcct  | cgactgcgcc | aacgcgggct | cctgtgaggg | gggcaacgac | 420  |
| ctgccggtgt  | ggagggtacgc | ccatgagcac | ggcatcccgg | acggacctg  | caacaactac | 480  |
| caggctaagg  | accaggaatg  | caacaagttc | aaccagtgtg | gaacatgcac | ggaattcaag | 540  |
| gagtgccact  | acatccagaa  | ctacacgctc | tggaaagtgg | gtgactacgg | ctccctctcc | 600  |
| ggcagggaga  | agatgatggc  | ggaaatctat | gccaacggcc | ccatcagctg | cggtatcatg | 660  |
| gccacggaga  | agatggtgaa  | ctacacggga | ggcatctacg | cggagtacca | ggatcaggcc | 720  |
| tacataaacc  | acgtcatttc  | tgtggtcggc | tggggcgctc | gcgacggcac | ggagtactgg | 780  |
| gttggtccga  | attcgtgggg  | ggaaccgtgg | ggggagcacg | gctggatgag | gattgtgacc | 840  |
| agcacctata  | aagacgggca  | gggcgccagt | tacaacctg  | ctgtcgagga | cacctgtacg | 900  |
| tttggggacc  | ccatcgttta  | agggacaggt | ctcccagaa  | gagcagtgtt | atcgtgaacc | 960  |
| ataatcaggg  | ggtccctatcg | ctctgggcac | tgggttggtt | ccaccatggt | ctgaagggac | 1020 |
| tggggactgg  | catcaaacgt  | gtctgatggc | tgctcgcgcc | cccgtgcgcc | cagaagggag | 1080 |
| aaggggcgcc  | tgtcagcaca  | cagcctgccc | cggcgccggc | cgggagcgcg | ctcctgggga | 1140 |
| agagtctgca  | atgggacggc  | tgagagcccc | gggccggcca | ctgcctgcc  | ccagtgtctg | 1200 |
| cctggccacc  | gtgtgatccg  | caaggcccaa | acgatgtgac | tgccaagctc | ctctgtccct | 1260 |
| gattttggtgt | ttcctgtctg  | gcagctgtgg | tcatgatgt  | ggtgcggaag | cccaggcttc | 1320 |
| tcaaagctct  | tacgttgcc   | gggattcggt | gggggggagt | cggggggtgg | agggagaaga | 1380 |
| cggccctgtg  | agattgcca   | agtgatgaat | aaagtacgtg | accccgcaaa | aaaaaaaaa  | 1440 |
| aaaaaaaaa   | aaaaaaaaa   | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | a          | 1491 |

<210> 434

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (249)..(249)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (548)..(548)  
 <223> n equals a,t,g, or c

<400> 434  
 tcgacccacg cgtccggggg cgtacgggg caagatggag gcgactacgg ctggtgtggg 60  
 cgggctagag gaagagggcg tgcggcgaaa ggaacggctg aaggccctac gggagaaaaac 120  
 cgggcgcaag gtgagaagtg tggagtggag gtcgcagttg aggcgtccag cgttcggggg 180  
 ccgggtcgcg cttgaggaga gcaaagggct aataaggaaa gacagctgcc gagggcgggc 240  
 atgccgggnc gctaacgcat gcgcgagaag acgggcgccc tcccacgatg tctggggctg 300  
 cttggcgtgg gactcctctg gcgctgggtg ggtcgtcgcg cacgcgcggg ggtgggcaar 360  
 gcatggtcag cgaccgcgag tccatctgac tctgtcttcc cgggtgttgc tctgttaggt 420  
 atctagggct gcctgtagg tccagatgctt gttgggttag gcgtgatttg tccgttcc 480  
 ctatggccta gctggtcttt aacccccgcc ttcgattctg agtcagacag actccccagt 540  
 tcgggcangc aattcccttg gaacaagggc a 571

<210> 435  
 <211> 2087  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (56)..(56)  
 <223> n equals a,t,g, or c

<400> 435  
 tcgacccacg cgtccgtggg gccgagcgcc gctgggtagg cggaagtagc cgcagnatgg 60  
 cggcggtat gccgttgct ctgctcgctc tgttgcctc gggggccggc ggctgggtgcc 120  
 ttgcagaacc cccacgcgac agcctgcggg aggaacttgt catcaccccg ctgccttccg 180  
 gggacgtagc cggcacattc cagttccgca cgcgtggga ttcggagctt cagcgggaag 240  
 gagtgtccca ttacaggctc tttcccaaag ccctggggca gctgatctcc aagtattctc 300  
 tacgggagct gcacctgtca ttcacacaag gcttttggag gacccgatactggggggccac 360  
 ccttcctgca ggccccatca gacactgacc actactttct gcgctatgct gtgctgccgc 420  
 gggaggtggg ctgcaccgaa aacctcacc cctggaagaa gctcttgccc tgtagttcca 480  
 aggcaggcct ctctgtgctg ctgaaggcag atcgcttggt ccacaccagc taccactccc 540  
 aggcagtga tatccgcct gtttgcagaa atgcacgtg tactagcatc tcttgggagc 600  
 tgaggcagac cctgtcagtt gtatttgatg ccttcctcac ggggcaggga aagaaagact 660  
 ggtccctctt ccggatgttc tccgaaccc tcacggagcc ctgccccctg gcttcagaga 720  
 gccgagtcta tgtggacatc accacctaca accaggacaa cgagcatta gaggtgcacc 780  
 ccccccgac cactacatat caggacgtca tcttaggcac tcggaagacc tatgccatct 840  
 atgacttgct tgacaccgcc atgatcaaca actctcgaaa cctcaacatc cagctcaagt 900  
 ggaagagacc cccagagaat gagggccccc cagtgcctt cctgcatgcc cagcggtagc 960  
 tgagtggcta tgggctgcag aagggggagc tgagcacact gctgtacaac acccacccat 1020  
 accgggcctt ccgggtgctg ctgctggaca ccgtaccctg gtatctgcgg ctgtatgtgc 1080  
 acacctcac catcacctcc aagggcaagg agaacaacc aagttacatc cactaccagc 1140  
 ctgcccagga ccggctgcaa cccacctcc tggagatgct gattcagctg ccggccaact 1200  
 cagtcaccaa ggtttccatc cagtttgagc gggcgctgct gaagtggacc gagtacacac 1260  
 cagatcctaa ccatggcttc tatgtcagcc catctgtcct cagcgccctt gtgccagca 1320  
 tggtagcagc caagccagtg gactgggaag agagtccctt cttcaacagc ctgttcccag 1380  
 tctctgatgg ctctaactac tttgtgcggc tctacacgga gccgctgctg gtgaacctgc 1440  
 cgacaccgga cttcagcatg cctacaacg tgcctgcct cactgtcact gtggtggcgc 1500  
 tgtgtacagg ctccctctac aatctcctca cccgaacctt ccacatcgag gagccccgca 1560  
 caggtggcct ggccaagcgg ctggccaacc ttaacggcg cgcccagagt gtccccccac 1620  
 tctgattctt gccctttcca gcagctgcag ctgccgtttc tctctgggga ggggagccca 1680  
 agggctgttt ctgccacttg ctctcctcag agttggcttt tgaaccaaag tgccctggac 1740  
 caggtcaggg cctacagctg tgttgtccag tacaggagcc acgagccaaa tgtggcattt 1800  
 gaatttgaat taacttagaa attcatttcc tcacctgtag tggccacctc tatattgagg 1860

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| tgctcaataa | gcaaaagtgg | tccgtggctg | ctgtattgga  | cagcacagaa  | aaagatttcc | 1920 |
| atcaccacag | aaaggtcggc | tggcagcact | ggccaagggtg | atgggggtgtg | ctacacagtg | 1980 |
| tatgtcactg | tgtagtggat | ggagtttad  | gtttgtggaa  | taaaaacggc  | tgtttccgtg | 2040 |
| rwaaaaaaa  | aaaaaaaaa  | gggcggccgc | tctagaggat  | ccctcga     |            | 2087 |

<210> 436  
 <211> 1409  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1180)..(1180)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1384)..(1384)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1392)..(1392)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| <400> 436  |             |            |             |             |            |      |
| acaggatcta | ccccctctgc  | agcccttcaa | gaagaggat   | gattgctacc  | acttttcccc | 60   |
| acaaagtac  | gaaaggaaac  | agcgacggaa | gcgcaaccga  | accctggaat  | tggtgtctcg | 120  |
| actggtccat | tcccgggcca  | ccccatttaa | ccggctcgag  | ccactcccag  | gacgaagtca | 180  |
| aggcctcgga | aggcgactac  | aactcccagc | aggctcgagca | gctccgcccg  | cgctgattct | 240  |
| ccattggcct | tccgggggtg  | gggattagat | gggagggtggc | cgtgggctg   | cgcccgggat | 300  |
| ttgtcccctc | tccggcttcc  | gtagaggaag | tggcgcggac  | cttcatttgg  | ggtttcgggt | 360  |
| cccccccttc | cccttccccg  | gggtctgggg | gtgacattgc  | accgcgcccc  | tcgtggggtc | 420  |
| gcgttgccac | cccacgcgga  | ctccccagct | ggcgcgcccc  | tcccatttgc  | ctgtcctggt | 480  |
| caggccccca | cccccttcc   | cacctgacca | gccatggggg  | ctgcgggtgtt | tttcggctgc | 540  |
| acttctgctg | cgttcggccc  | ggccttcgcg | cttttcttga  | tcactgtggc  | tggggaccgc | 600  |
| cttcgcgtta | tcattcctgt  | cgcaggggca | tttttctggc  | tgggtctccct | gctcctggcc | 660  |
| tctgtggtct | ggttcattct  | ggtccatgtg | accgaccggt  | cagatgcccg  | gctccagtac | 720  |
| ggcctcctga | tttttggtgc  | tgctgtctct | gtccttctac  | aggagggtgt  | ccgctttgcc | 780  |
| tactacaagc | tgtttaagaa  | ggcagatgag | gggttagcat  | cgctgagtga  | ggacggaaga | 840  |
| tcacccatct | ccatccgcca  | gatggcctat | gtttctggtc  | tctccttcgg  | tatcatcagt | 900  |
| ggtgtcttct | ctgttatcaa  | tattttggct | gatgcacttg  | ggccagggtg  | ggttgggata | 960  |
| catggagact | cacctatta   | cttcctgact | tcagccttcc  | tgacagcagc  | cattatcctg | 1020 |
| ctccatacct | tttggggagt  | tgtgttcttt | gatgcctgtg  | agaggagacg  | gtactgggct | 1080 |
| ttgggcctgg | tggttgggag  | tcacctactg | acatggggac  | tgacattcct  | gaaccoctgg | 1140 |
| tatgaggcca | gcctgctgcc  | atctatgcag | tcactgktn   | catggggctc  | tgggccttca | 1200 |
| tcacagctgg | agggccttyc  | gaagtattca | gcgcagcytc  | ttgkgaagga  | ctgactacct | 1260 |
| ggactgatcg | ctgacagatc  | acctgctgtc | mctgccatga  | ctgagccagc  | ccagccggtc | 1320 |
| cattgccaaa | tctctctttc  | gcggctaccc | atactcaggt  | ttgttgctct  | tggacgtagc | 1380 |
| ttanttacag | anagctgggtc | agcagcagt  |             |             |            | 1409 |

<210> 437  
 <211> 2571  
 <212> DNA  
 <213> Homo sapiens

<400> 437

|             |             |              |                         |             |             |      |
|-------------|-------------|--------------|-------------------------|-------------|-------------|------|
| ccacgcgtcc  | ggtaatcttc  | aaatatgcgc   | atg <del>g</del> cgagta | ttatgggtctg | ggtgatgata  | 60   |
| atcatgggtga | ttctgggtgct | gggctacgga   | atattttcact             | gctacatgga  | gtactcccga  | 120  |
| ctgcgtgggtg | aggccggctc  | tgatgtctct   | ttgggtggacc             | tgggctttca  | gacggatttc  | 180  |
| cgggtgtacc  | tgactttacg  | gcagacctgg   | ttggccttta              | tgatcattct  | gagtatcctt  | 240  |
| gaagtcatta  | tcactttgct  | gctcatcttt   | ctccggaaga              | gaattctcat  | cgcgattgca  | 300  |
| ctcatcaaag  | aagccagcag  | ggctgtggga   | tacgtcatgt              | gctccttgct  | ctaccactg   | 360  |
| gtcaccttct  | tcttgctgtg  | cctctgcata   | gcctactggg              | ccagcactgc  | tgtcttcctg  | 420  |
| tccacttcca  | acgaagcggg  | ctataagaac   | tttgatgaca              | gcccctgccc  | atttactgcg  | 480  |
| aaaacctgca  | accagagagc  | cttccccctc   | tccaatgagt              | cccgcgaatg  | ccccaatgcc  | 540  |
| cgttgccagt  | tcgccttcta  | cgggtgggtgag | tggggtacc               | accgggccct  | gctgggcctg  | 600  |
| cagatcttca  | atgccttcat  | gttcttcttg   | ttggccaact              | tcgtgctggc  | gctgggcca   | 660  |
| gtcacgctgg  | ccggggcctt  | tgctcctac    | tactgggccc              | tgcgcaagcc  | ggacgacctg  | 720  |
| ccggccttcc  | cgctcttctc  | tgcttttgcc   | cgggcgtca               | ggtaccacac  | aggctccctg  | 780  |
| gcctttggcg  | cgctcatcct  | ggccattgtg   | cagatcatcc              | gtgtgatact  | cgagtacctg  | 840  |
| gatcagcggc  | tgaagctgc   | agaagaacag   | tttgccaagt              | gcctcatgac  | ctgtctcaaa  | 900  |
| tgctgcttct  | ggtgcctgga  | gaagttcatc   | aaattcctta              | ataggaatgc  | ctacatcatg  | 960  |
| attgccatct  | acggcaccac  | ttctctgacc   | tcggccaggga             | atgccttctt  | cctgctcatg  | 1020 |
| agaaacatca  | tcagagtggc  | tgctctggat   | aaagttactg              | acttctctct  | ccgttgggc   | 1080 |
| aaacttctga  | tcgttggtag  | tggtgggcatc  | ctggctttct              | tcttcttcac  | ccaccgtatc  | 1140 |
| aggatcgtgc  | aggatacagc  | accacccctc   | aattattact              | gggttcctat  | actgacgggtg | 1200 |
| atcgttggtc  | cctacttgat  | tgacacgggt   | ttcttcagcg              | tctatggcat  | gtgtgtggac  | 1260 |
| acgtgcttcc  | tctgcttctt  | ggaggacctg   | gagaggaatg              | acggctcggc  | cgagaggcct  | 1320 |
| tacttcatgt  | cttccaccct  | caagaaactc   | ttgaacaaga              | ccaacaagaa  | ggcagcggag  | 1380 |
| tcctgaaggc  | cccgtgctcc  | ccacctctca   | aggagtctca              | tgccgcaggg  | tgctcagtag  | 1440 |
| ctgggtctgt  | tccccagcc   | ccttgggctc   | acctgaagtc              | ctatcacgc   | cgctctgccc  | 1500 |
| ctccccatga  | gccagatccc  | accagtttct   | ggacgtggag              | agtctggggc  | atctccttct  | 1560 |
| tatgccaaag  | ggcgttgga   | gttttcatgg   | ctgccccctc              | agactgcgag  | aaacaagtaa  | 1620 |
| aaacccttg   | gggctctttg  | atgtctggga   | tggcacgtgg              | cccgaacctc  | acaagctccc  | 1680 |
| tcattgcttcc | tgtccccgcg  | ttacacgaca   | acgggccaga              | ccacgggaag  | gacggtgttt  | 1740 |
| gtgtctgagg  | gagctgctgg  | ccacagtga    | caccacagtt              | tattcctgcc  | tgctccggcc  | 1800 |
| aggactgaac  | cccttctcca  | cacctgaaca   | gttggctcaa              | gggccaccag  | aagcatttct  | 1860 |
| ttattattat  | tatttttttaa | cctggacatg   | cattaaaggg              | tatttagct   | ttctttccgt  | 1920 |
| ctgtctcaac  | agctgagatg  | gggccgccaa   | ggagtgcctt              | ccttttgctc  | cctcctagct  | 1980 |
| gggagtgaac  | ggtgggagtg  | tggtgcccc    | ggtgggggtg              | tctcctggct  | gggaaggagg  | 2040 |
| gaaagggag   | gagagttttg  | cgggggttgg   | cagtgaggag              | caggctggag  | aggagatggc  | 2100 |
| taatatctgt  | ttaattggaaa | cctgctgggg   | tggaggaggt              | taggctgaat  | ttcccgaact  | 2160 |
| cctctgccag  | ttattgacac  | agctctcttt   | gtaagagagg              | aaagaaacta  | aaccacacca  | 2220 |
| agggatgatt  | tcagggggag  | aggtggaggg   | cagatgtcct              | gggcaaaccg  | ggccccctctg | 2280 |
| cccacacacc  | tcacttgatc  | cttttgccaa   | acttgtaaa               | ctcaggggaa  | ctggcttccc  | 2340 |
| agttgcccct  | ttgccatatt  | ccaagtcccc   | ctcagacttc              | atgtctctgc  | tcatcagcac  | 2400 |
| tgtcccagga  | tcctggagag  | ggagaacccc   | tggccccagg              | ggaaagaggg  | gggggtctcc  | 2460 |
| cgtttctctg  | gcctgcacca  | gcccctgccc   | cattgcgtct              | gcacaccct   | gcgtgtaact  | 2520 |
| gcattccaac  | cactaataaa  | gtgcctattg   | tacaggaaaa              | aaaaaaaaaa  | a           | 2571 |

<210> 438  
 <211> 3080  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 438  |            |            |            |            |            |     |
| ccctctaacc | tccagagcta | tggtctcaga | tgttctcttt | tagagagaag | gtcattagtc | 60  |
| caccaagaag | ccaaatgaca | acaggaaagg | tgatggaag  | atgaaaacaa | aggaagggtg | 120 |
| acttttgggt | atatgttata | gccatgtatg | tatgtcttct | tttttctatt | ttctcttggt | 180 |
| cttcacttta | actgtctcca | atctgcccc  | caccaaccct | gtgtcactcc | cagcacacat | 240 |
| aagacagagc | agaagacccc | atccttgagc | tggtctcccc | tgggtatggg | ctgaggtaac | 300 |
| atcccacaca | ccaggacgat | cttccctgcc | tcccatcggt | cacattaaga | cattttcaaa | 360 |
| gtgtaatat  | ataaatggac | ctacctctaa | atattgactt | tacagttatt | ttatgaggca | 420 |

|             |             |             |             |              |              |      |
|-------------|-------------|-------------|-------------|--------------|--------------|------|
| ctcaatttat  | agctaagggg  | tttcagtcta  | gtgtcatgaa  | agagataaaa   | gggtgttcac   | 480  |
| agattattta  | agacataaagg | ctgggtcaggg | atgagtcaga  | gagtcattct   | ccatgaagtc   | 540  |
| acccctggcc  | aactttgaaa  | ggaagaatgt  | ttactgcac   | tttgggcgta   | aatgacaagc   | 600  |
| atctgggacc  | ctcccccttc  | ctgatccctg  | ccaccaccac  | tcaatcgcc    | agataatcaa   | 660  |
| ttgtttctga  | ggtcactttc  | acataatctt  | ggcaacttta  | gttggtgaaa   | gcatgcatgc   | 720  |
| aggggcaaca  | tgggtgttacc | tgttgctttt  | tttttcccc   | ttctaagctc   | cttaccagag   | 780  |
| agcagatcta  | aggatactgt  | gtaacttgaa  | ataaccggca  | ttttcagact   | ttgccatttc   | 840  |
| atagtccata  | gggcaagcca  | tctttcaggg  | atatccacat  | ggtgggcagg   | aaatcttgac   | 900  |
| attggcttct  | cagaaaatat  | ctgctagtc   | acacctggga  | attcactaaa   | cacccaaatg   | 960  |
| cagtgtttga  | tgtggcctta  | cctgctcctt  | gtatcttatt  | ggattgaatg   | agaacagatg   | 1020 |
| caaaacaagt  | atgtacagaa  | atgccaggaa  | aactactgtc  | ttccaatggg   | gttcaacagt   | 1080 |
| tcaaagccct  | ccattgatgg  | agccacttag  | gaggtttcag  | tgtcttaatt   | cttttgatt    | 1140 |
| ttgacagttt  | tagaaaacta  | aaaaaaaaaa  | aaacaagttt  | ttatcgtgaa   | atttgattac   | 1200 |
| aaaagatttt  | gagagaaatg  | ataagaacca  | gatctgaaga  | atttgaaatt   | tgaaaattca   | 1260 |
| gcagagcatt  | gttttaaatg  | tatcttgtac  | aagatgaact  | aaataaatgt   | ttttaaaactg  | 1320 |
| acttcttttt  | ggtggatttc  | aaaagttaac  | cttcagactt  | atttagaggg   | ttttcataaaa  | 1380 |
| gcaagttttt  | ttctgttgct  | gctcaatttc  | tttcttttct  | tttctatctt   | ttcttttctc   | 1440 |
| ttcctttttg  | tgttccctgt  | gtgtgaagca  | ggaggggcag  | ctgaaatgct   | ttgcatactc   | 1500 |
| accctgggtca | ttttccagtt  | aggacaagct  | caaagggaga  | gcacagctcaga | agggtggca    | 1560 |
| ctcatgactc  | aggaaataat  | ttgtggctca  | tttgaaagca  | gcatcttcta   | agtgtgttgc   | 1620 |
| aaaatagaga  | aaaatcaaca  | ggttggttgg  | gtgtttatatt | tccccactgc   | gtatgaaagc   | 1680 |
| tgggtgctgt  | gccctttgat  | ggccaagagg  | agctcctggc  | agccgtggcc   | atgtgtcccg   | 1740 |
| gggtgtgtgg  | ggcaggcggc  | agttcttggc  | agccttctct  | gcagggctgc   | ttctcgacct   | 1800 |
| tgcttcaaag  | ccttctgggc  | tgtagaccac  | acagagctca  | ccctcaagca   | gccacgctgg   | 1860 |
| accacattgc  | tttcaactgat | tttgactcat  | ctcccccata  | gtgcagtgtg   | tccaaagggtg  | 1920 |
| gctgtgggtg  | acacagccgt  | gtgttcgtgc  | tgtacggcac  | tgtggcatg    | ggggtgacgc   | 1980 |
| tggagctcct  | gattagtttg  | agttcaaatac | ccagcctcgc  | tgggtggcat   | gcttagaaca   | 2040 |
| gaccctagca  | ggcgccaagc  | cccagtaagt  | ggtggagtca  | ttggtaaagg   | ataatgctga   | 2100 |
| atgcaggaca  | tttatatgga  | tgaaagagta  | tgggaaaggg  | aatttcagtg   | atatgaattc   | 2160 |
| caaagcgtgt  | tagtatattt  | tataagaaac  | aaaaagggtat | tcaccagcac   | caccaaactc   | 2220 |
| catcatcagt  | cacaggcaac  | caagaattga  | tcactctccc  | agaactttgg   | gaggccgagg   | 2280 |
| caggcagatc  | acgaggtcag  | gagatcgaga  | ccatcctggc  | taacacgggtg  | aaaccccgtc   | 2340 |
| tgtactaaaa  | atacaaaaaa  | aaaaaaagaa  | aaattagccgg | ggcatgggtg   | cgggaggctg   | 2400 |
| aggcaggaga  | atggcgtgaa  | cccgggaggc  | ggagcttgca  | gtgagccgag   | atcacgccac   | 2460 |
| tggactcctg  | cctgagtgac  | agaggggagac | gccgtctcaa  | aaaaaaaaaa   | aaaaaaaaaa   | 2520 |
| gaattgagca  | ctcaagtcctg | tcttctaaac  | tgcctgaacc  | tcttgagatg   | agaagaacaa   | 2580 |
| aaacaacctg  | cgtgtccctg  | atgtagggtta | ccctaattgga | gcttctctggg  | ttctcctctc   | 2640 |
| cctgtcacat  | ctcagggact  | ccaccttatt  | ttaaagctgt  | cttactagca   | ctgttggtgact | 2700 |
| tttctgtttc  | agatgctcaa  | acaagagatg  | gagcaggggc  | agggtttggg   | gttaaatggg   | 2760 |
| ctggaggtga  | gattggcccc  | cctaagggtgt | tgaagacact  | tggggtgaaa   | gtcgttaggg   | 2820 |
| tatatgtagg  | tcagagccag  | ggccgctgcg  | tgcacagagg  | tctgtcatgg   | agcggccagt   | 2880 |
| aggcaccaaa  | atccagccaa  | agctcggcca  | tgagagctgg  | gtagcggcag   | gggtgacaac   | 2940 |
| agtggccacc  | ctggtaagg   | taagggtcaga | cttgggttag  | tctaagctgt   | cagagggtgt   | 3000 |
| tcatcatttt  | tcttaccttt  | ccaatagtga  | ccctattoca  | aaggccttgt   | ttcttgtgcc   | 3060 |
| agagaagaaa  | ctaaagtata  |             |             |              |              | 3080 |

<210> 439  
 <211> 1837  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (48)..(48)  
 <223> n equals a,t,g, or c

<220>

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<221> misc_feature
<222> (987)..(987)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1037)..(1037)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1312)..(1312)
<223> n equals a,t,g, or c

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<400> 439
cagcagagcc cagcgcggtg ctatcggaca gagcctggcg agcgcaangg acgcggggag      60
ccagcggggc tgagcgcggc caggggtctga acccagatth cccagactag ctaccactcc      120
gcttgcccac gccccgggag ctgcgcggcg ctggcgggtca gcgaccagac gtccgggggccc      180
gctgcgctcc tggcgcgcga ggcgtgacac tgtctcggct acagaccag agagaaaagc      240
ttcattctgg aggggaagga gttttgagtg ccaaggatga aattccaccc atcactcggg      300
ctctgagctg caggacacag gcaggacaac gggagcacac tgccaggatg ggagctgctg      360
ggaggcagga ctctctcttc aaggccatgc tgaccatcag ctggctact ctgacctgct      420
tccctggggc cacatccaca gtggctgctg ggtgccctga ccagagccct gagttgcaac      480
cctggaaccc tggccatgac caagaccacc atgtgcatat cggccagggc aagacactgc      540
tgctcacctc ttctgccacg gtctattcca tccacatctc agagggaggc aagctgggtca      600
ttaaagacca cgacgagccg attgttttgc gaaccgcgca catcctgatt gacaacggag      660
gararctgca tgctggggag tgccctctgc cctttccagg gcaatttcac catcattttg      720
tatggaaggg ctgatgaagg tattcagccg gatccttact atggtctgaa gtacattggg      780
gttggtaaaag gaggcgctct tgarttgcac ggamagaaaaaactctcctg gacatttctg      840
aacaagamcc ttcacccagg tggcatggca gaaggaggct atttttttga aaggagctgg      900
ggccaccgtg gagttattgt tcatgtcatc gaccccaaat caggcacagt catccattct      960
gaccggtttg acacctatag atccaanaaa gagagtgaac gtctgggtcca gtatttgaac     1020
gcggtgcccc atggcangat cctttctgtt gcagtgawtg atsaagggtc tcgaaatctg     1080
gatgacatgc ccaggaaggc gatgacaaa ttgggaagca aacacttctc gcaccttgga     1140
tttagacacc cttggagttt tctaactgtg aaaggaaatc catcatcttc agtggaagac     1200
catattgaat atcatggaca tccaggctct gctgagccc gggatttcaa attgttccag     1260
acagagcatg gcgaatatty caatgtttct ttgtccagtg artgggttca anacgtggak     1320
tgagcggakt ggttcgatca tgataaagtw tctcagacta aaggtgggga gaaaatttca     1380
gacctctgga aagctcacc aggaanaata tgcaatcgtc ccattgatat acaggccact     1440
acaatggatg gagttaacct cagcaccgag gttgtctaca aaaaagscca ggattatagg     1500
tttgcttgct acgaccgggg cagagcctgc cggagctacc gtgtacggtt cctctgtggg     1560
aagcctgtga ggcccaact cacagtcacc attgacacca atgtgaacag caccattctg     1620
aacttgaggg ataatgtaca gtcattgaaa cctggagata cctgggtcat tgccagtact     1680
gattactcca tgtaccaggc agaagagttc caggtgcttc cctgcagatc ctgcgcccc     1740
aaccagggtca aagtggcagg gaaaccaatg tacctgcaca tcgggggtcg acgcggccgc     1800
gaatccccggg tcgacgagct cactagtcgg cggccgc                                1837

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<210> 440
<211> 1188
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (892)..(892)
<223> n equals a,t,g, or c

```



<400> 440

|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| gacggagcgg | gcgcccttccg | agcgccgac  | agggagcccc | gagtcctccg  | gtccccgcag | 60   |
| ccccagaac  | ccggacaact  | gttgccggcg | cggcaggggc | atcgcggggg  | cgtgggcagc | 120  |
| ccccgcaccc | cagcaggcgg  | ctccccgggg | cgccggctcc | cggtacgaa   | gcgaggaacg | 180  |
| agcgggcggc | gggcacgagg  | cagctctgga | cggatcaatg | caagccagac  | gatgaccagt | 240  |
| tgtggccagc | agtccttgaa  | cgtgctcgcc | gtcctcttct | cattgctgtt  | ttctgagtc  | 300  |
| ttgtctgcac | atttccgggt  | ctgtgaacca | tacacagacc | acaaaggccg  | ctaccacttt | 360  |
| ggcttccact | gccccggct   | ctcggaaca  | aagaccttca | tcctctgttg  | tcaccataac | 420  |
| aacacggtct | tcaaatactg  | ctgcaacgag | acggagtcc  | aggcgggtgat | gcaggcgaac | 480  |
| ctcacggcca | gytccgagg   | ttacatgcac | aacaattaca | ccgccctggt  | gggagtgtgg | 540  |
| atctatggat | ttttcgtgtt  | gatgctgctg | gttctggacc | twwwgtatwa  | mtcggcaatg | 600  |
| aactacgaca | tctgcaaggt  | ctacctggca | cggtggggca | tccaaggacg  | atggatgaaa | 660  |
| caggaccccc | ggcgggtggg  | gaacccccgt | cgggccctc  | ggccgggtca  | ggggcccca  | 720  |
| cagccgcagc | ctcccccagg  | cccgctgcca | caagccccac | aggccgtgca  | cacattgcgg | 780  |
| ggagatgctc | acagcccacc  | gctgatgacy | ttccagagtt | cgtctgcctg  | aaaacgcttt | 840  |
| tgctgtgcct | caggatgggg  | gagatgagat | ctgaagcacc | cggtgacagc  | tncgagaaga | 900  |
| acaacttcta | cagagatgcc  | agggacagcc | gaggtagcgg | cgrtggcaca  | ggaggaaatg | 960  |
| ctgcctgtgc | ccaaagcccc  | cttcacgga  | cttctaagat | taggagcaaa  | ctcaggggta | 1020 |
| ggggctgggg | gtgcagggga  | ggggattctg | agccacctgt | ccgcaagcaa  | tagtcctatt | 1080 |
| ttgggctggt | ggcttctgag  | aggtgactca | ttgtggactc | aggatgccca  | agacaaaagg | 1140 |
| cgacgcggcc | gcgaattccc  | gggtcgacga | gctcactagt | cggcggcc    |            | 1188 |

<210> 441  
 <211> 3369  
 <212> DNA  
 <213> Homo sapiens

<400> 441

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| ggattcgcgg  | ccgcgtcgga  | ccttccgcgg | accgggcgac  | ccagtgcacg | gccgccgcgt  | 60   |
| cactctcggt  | cccgtgacc   | ccgcgccgag | ccccggcggc  | tctggccgcg | gccgcactca  | 120  |
| gcgccacgcg  | tcgaaagcgc  | aggccccgag | gaccgcgcgc  | actgacagta | tgagccgcac  | 180  |
| agcctacacg  | gtgggagccc  | tgcttctcct | cttggggacc  | ctgctgccgg | ctgctgaagg  | 240  |
| gaaaaagaaa  | gggtcccaag  | gtgccatccc | cccgccagac  | aaggccagc  | acaatgactc  | 300  |
| agagcagact  | cagtcgcccc  | agcagcctgg | ctccaggaac  | cgggggcggg | gccaaaggcg  | 360  |
| gggcactgcc  | atgcccggg   | aggaggtgct | ggagtccagc  | caagaggccc | tgcatgtgac  | 420  |
| ggagcgcaaa  | tacctgaagc  | gagactgggt | caaaaccag   | ccgcttaagc | agaccatcca  | 480  |
| cgaggaaggc  | tgcaacagtc  | gcaccatcat | caaccgcttc  | tgttacggcc | agtgcaactc  | 540  |
| tttctacatc  | cccaggcaca  | tccggaagga | ggaaggttcc  | tttcagtcct | gctccttctg  | 600  |
| caagcccaag  | aaattcacta  | ccatgatggt | cacactcaac  | tgccctgaac | tacagccacc  | 660  |
| taccaagaag  | aagagagtca  | cacgtgtgaa | gcagtgtcgt  | tgcatatcca | tcgatttgga  | 720  |
| ttaagccaaa  | tccaggtgca  | cccagcatgt | cctaggaatg  | cagmcccagg | aagtcccaga  | 780  |
| cctaaaacaa  | ccagattctt  | acttggttta | aacctagagg  | ccagaagaac | ccccagctgc  | 840  |
| ctcctggcag  | gagcctgctt  | gtgcgtagtt | cgtgtgcatg  | agtgtggatg | ggtgcctgtg  | 900  |
| ggtgttttta  | gacaccagag  | aaaacacagt | ctctgctaga  | gagcactycc | tattttgtaa  | 960  |
| acmtatctgc  | tttaatgggg  | atgtaccaga | aaccacctc   | accccggtc  | acatctaaaag | 1020 |
| gggcggggcc  | gtggtctggt  | tctgactttg | tgtttttgtg  | ccctcctggg | gaccagaatc  | 1080 |
| tccttttcgga | atgaatgttc  | atggaagagg | ctcctctgag  | ggcaagagac | ctgttttagt  | 1140 |
| gctgcattcg  | acatggaaaa  | gtccttttaa | cctgtgcttg  | catcctcctt | tcctcctcct  | 1200 |
| cctcacaatc  | catctcttct  | taagttgaya | gtgactatgt  | cagtctaatc | tcttgtttgc  | 1260 |
| carggttctc  | aaattaattc  | acttaacat  | gatgcaaatg  | tttttcattt | tgtgaagacc  | 1320 |
| ctccagactc  | tgggagaggc  | tgggtgtggc | aaggacaagc  | aggatagtgg | agtgagaaag  | 1380 |
| ggaggggtgga | gggtgaggcc  | aatcaggctc | cagcaaaagt  | cagtagggac | attgcagaaag | 1440 |
| cttgaaaggc  | caataccaga  | acacaggctg | atgcttctga  | gaaagtcttt | tcctagtatt  | 1500 |
| taacagaacc  | cagtgaaaca  | gaggagaa   | gagattgccca | gaaagtgttt | aactttggcc  | 1560 |
| gttgcaatct  | cgtcaaacct  | aacaccaaac | tgaaaacata  | aatactgacc | actcctatgt  | 1620 |
| tcggacccaa  | gcaagtttagc | taaaccaaac | caactcctct  | gctttgtccc | tcagggtggaa | 1680 |
| aagagaggta  | gtttagaact  | ctctgcatag | gggtgggaat  | taatcaaaaa | cckcagaggc  | 1740 |

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| tgaaatccct | aataacctttc | ctttatcgtg | gttatagtca | gctcatttcc | attccactat  | 1800 |
| ttcccataat | gcttctgaga  | gccactaact | tgattgataa | agatcctgcc | tctgctgagt  | 1860 |
| gtacctgaca | gtagtctaag  | atgagagagt | ttagggacta | ctctgtttta | gcaagagata  | 1920 |
| ttttgggggt | ctttttgttt  | taactattgt | caggagattg | ggctaaagag | aagacgacga  | 1980 |
| gagtaaggaa | ataaagggaa  | ttgcctctgg | ctagagagta | gttaggtgtt | aatacctggg  | 2040 |
| agagatgtaa | gggatatgac  | ctccctttct | ttatgtgctc | actgaggatc | tgaggggacc  | 2100 |
| ctgttaggag | agcatagcat  | catgatgtat | tagctgttca | tctgctactg | gttgatgga   | 2160 |
| cataactatt | gtaactattc  | agtatttact | ggtaggcact | gtcctctgat | taaacttggc  | 2220 |
| ctactggcaa | tggctactta  | ggattgatct | aagggccaaa | gtgcagggtg | ggtgaacttt  | 2280 |
| attgtacttt | ggatttgggt  | aacctgtttt | cttcaagcct | gaggttttat | atacaaaactc | 2340 |
| cctgaatact | ctttttgact  | tgtatcttct | cagcctccta | gccaagtcct | atgtaatatg  | 2400 |
| gaaaacaaac | actgcagact  | tgagattcag | ttgccgatca | aggctctggc | attcagagaa  | 2460 |
| cccttgcaac | tcgagaagct  | gtttttattt | cgtttttggt | ttgatccagt | gctctcccat  | 2520 |
| ctaacaacta | aacaggagcc  | atttcaaggc | gggagatatt | ttaaaccacc | aaaatgttgg  | 2580 |
| gtctgatatt | caaactttta  | aactcactac | tgatgattct | cacgctaggc | gaatttgtcc  | 2640 |
| aaacacatag | tgtgtgtgtt  | ttgtatacac | tgtatgaccc | caccccaaat | ctttgtattg  | 2700 |
| tccacattct | ccaacaataa  | agcacagagt | ggatttaatt | aagcacacaa | atgctaaggc  | 2760 |
| agaattttga | gggtgggaga  | gaagaaaagg | gaaagaagct | gaaaatgtaa | aaccacacca  | 2820 |
| gggaggaaaa | atgacattca  | gaaccagcaa | acactgaatt | tctcttggtg | ttttaactct  | 2880 |
| gccacaagaa | tgcaatttcg  | ttaayggaga | tgacttaagt | tggcagcagt | aatcttcttt  | 2940 |
| taggagcttg | taccacagtc  | ttgcacataa | gtgcagattt | ggccaagta  | aagagaattt  | 3000 |
| cctcaacact | aacttcactg  | ggataatcag | cagcgtaact | accctaaaag | catatcacta  | 3060 |
| gccaaagagg | gaaatatctg  | ttcttcttac | tgtgcctata | ttaagactag | tacaaatgtg  | 3120 |
| gtgtgtcttc | caactttcat  | tgaaaatgcc | atatctatac | catattttat | tcgagtcact  | 3180 |
| gatgatgtaa | tgatatattt  | tttcattatt | atagtagaat | atttttatgg | caagatatatt | 3240 |
| gtggtcttga | tcatacctat  | taaaataatg | ccaaacacca | aatatgaatt | ttatgatgta  | 3300 |
| cactttgtgc | ttggcattaa  | aagaaaaaaa | cacaaaaaaa | aaaaaaaaaa | gggcggccgc  | 3360 |
| tgcgcgatc  |             |            |            |            |             | 3369 |

<210> 442

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (27)..(27)

<223> n equals a,t,g, or c

<220>

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<222> (39)..(39)

<223> n equals a,t,g, or c

<400> 442

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cgggaccgga | taacaaat   | caccccnnga | aacaggctnt | gccccactag | gcttttggca | 60  |
| aaaaagctat | tttaggttgc | cacttttaga | ggtacgcctg | gcaggtaccg | ggtccggaaa | 120 |
| ttcgcggccg | cgtccgactc | atgactgtgt | tggcacttta | aaaatattga | tatcccacaa | 180 |
| taaacagggt | tatcattgat | ataatttccc | acataattta | ctataaataa | tcgagtaaca | 240 |
| acctgtcttg | taccattctt | tacagaaagg | cttttctcaa | tgcgttagtc | agggtttctt | 300 |
| cccggggaga | aaatttataa | tccttaatga | ggccagtagt | cagaaggaca | tttctgctta | 360 |
| ctcttttctc | tgtaattgcc | ctcactaaaa | taaagcatga | cttttttatc | atgtgttcac | 420 |
| acatgcagtg | catccctaga | gtttttctga | agcatgaatt | caataacata | taattagacc | 480 |
| tgattctgag | aagattttct | cttcttcgtc | gacgcggccg | cgaatcccg  | gtcgacgagc | 540 |
| tcactagtcg | gcggccgc   |            |            |            |            | 558 |

<210> 443

<211> 2499  
 <212> DNA  
 <213> Homo sapiens

<400> 443

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| caccagcacc  | ccgcccagag  | cagtgccgct  | gccc aaatcc | tcgcaggcag | ctcatcaacg  | 60   |
| caattgcaac  | tccggctgga  | gccccggacc  | tgcaagcctg  | ggtgtccgtg | ggtccgtctg  | 120  |
| cccagccatc  | tgctgggtgg  | acctctccct  | cctgccgcct  | ccctcgggtg | acccacatt   | 180  |
| gcagaagtgc  | agctcgcccg  | gagcagccca  | ggagctcagc  | atgcgtcccc | caggcttcag  | 240  |
| gaacttcttg  | ctgctggcgt  | cctcccttct  | ctttgctggg  | ttgtcagctg | ttcctcaaag  | 300  |
| cttctcgcca  | tctctgagga  | gctggccggg  | cgccgcctgc  | aggctgtccc | gggccgagtc  | 360  |
| ggagcgacgc  | tgccgcgcac  | ctgggcagcc  | ccccggggcc  | gcgctgtgcc | acggccgggg  | 420  |
| ccgctgcgac  | tgccggcgtct | gcattctgcca | cgtgactgag  | ccgggcatgt | tcttcggggc  | 480  |
| cctgtgtgag  | tgccatgagt  | gggtgtgcca  | gacctacgac  | gggagcacct | gtgcaggcca  | 540  |
| tggtgaagtgt | gactgtggca  | agtgaagtgt  | tgaccaggga  | tggtatgggg | atgcttgcca  | 600  |
| gtacccaagt  | aactgtgact  | tgacaaagaa  | gaaaagttaac | caaatgtgca | agaattcaca  | 660  |
| agacatcatc  | tgctctaatt  | caggtaacatg | tactgtggc   | agggtgaagt | gtgataattc  | 720  |
| agatggaagt  | ggacttgtgt  | atggtaaat   | ttgtgagtgt  | gacgatagag | aatgcataga  | 780  |
| cgatgaaaca  | gaagaaatat  | gtggaggcca  | tggaagtgt   | tactgtggaa | actgctactg  | 840  |
| caaggctggg  | tggcatggag  | ataaatgtga  | attccagtgc  | gatatcacc  | cctgggaaag  | 900  |
| caagcgaaga  | tgacgtctc   | cagatggcaa  | aatctgcagt  | aacagaggga | cttgtgtatg  | 960  |
| tggtgaatgt  | acctgtcacg  | atgttgatcc  | gactggggac  | tggggagata | ttcaggga    | 1020 |
| cacctgtgaa  | tgtgatgaga  | gggactgtag  | agctgtctat  | gaccgatatt | ctgatgactt  | 1080 |
| ctgttcaggt  | catggacagt  | gtaattgagg  | aagatgtgac  | tgcaaagcag | gctgggtatg  | 1140 |
| gaagaagtgt  | gagcaccac   | agtcctgcac  | gctgtcagct  | gaggagagca | tcagggaagt  | 1200 |
| ccagggaagc  | tcggatctg   | cttgctctgg  | gaggggtaaa  | tgtgaatgtg | gcaaatgcac  | 1260 |
| ctgctatcct  | ccaggagatc  | gccgggtgta  | tggcaagact  | tgtgagtgtg | atgatcgccg  | 1320 |
| ctgtgaagac  | ctcgatgggt  | tggtctgtgg  | aggccacggc  | acatgttctt | gtggtcgctg  | 1380 |
| tgtttgtgag  | agaggatggt  | ttggaaagct  | ctgccaacat  | ccgcggaagt | gtaacatgac  | 1440 |
| ggaagaacaa  | agcaagaatc  | tgtgtgaatc  | agcagatggc  | atattgtgct | cggggaagg   | 1500 |
| ttcttgtcat  | tgtgggaagt  | gcattttgtt  | tgctgaagag  | tggtatat   | ctggggagtt  | 1560 |
| ctgtgactgt  | gatgacagag  | actgcgacaa  | acatgatggg  | ctcattttgt | cagggaatgg  | 1620 |
| aatatgtagc  | tgtggaaact  | gtgaatgctg  | ggatggatgg  | aatggaaatg | catgtgaaat  | 1680 |
| ctggccttgg  | tcagaatatc  | cttaacaatt  | acatgagaga  | ggtctggatt | cttatttttt  | 1740 |
| ctggggccatt | agaacatata  | aatgcgaagg  | aaaccatgta  | tattcaccac | taggacaggt  | 1800 |
| taaaaagacc  | attgtatggt  | tttctatttc  | tgaattacga  | atgaatccg  | agtacctatt  | 1860 |
| agaaatgagt  | tatgcaaat   | tagatgcaaa  | taacattaga  | aaaaaaagat | tcttcacata  | 1920 |
| ttaacataag  | tggttcctaa  | cgagagcaat  | ttttccaccc  | aaaagtcatt | tggcaacatc  | 1980 |
| tacagacaat  | tttgattgtc  | acactgggtc  | gggtaggaag  | gtatgctgca | gacattttgt  | 2040 |
| gggtagaggc  | cagggatgct  | gctgagcatc  | ccgcagtgtg  | caggacagcc | cccaaacaag  | 2100 |
| gaattatcca  | gccccaaatg  | ccaatagggc  | tcagactgag  | aaacattgag | ttatatggct  | 2160 |
| attagaaatc  | cacattctta  | cacaagaaag  | accatattag  | aatctaagga | aaacatgcat  | 2220 |
| attcacatta  | attaatcgat  | cagatttttc  | cagaattcgt  | tatcagtcac | catttttaata | 2280 |
| tggggacaat  | gaagacaagc  | acacaggagg  | tagaatatca  | gagtggggct | ggatcaaggg  | 2340 |
| caaaaactgg  | tcattaagtc  | atctgacatt  | aaatcattta  | gccactaagt | tattttgtgta | 2400 |
| ctctcacttt  | aaactcacca  | aagaagattc  | tcttaagaaa  | attatgaaaa | atgtacaatt  | 2460 |
| taacattttta | aataaatagt  | gacagaagtt  | gtttaaaaa   |            |             | 2499 |

<210> 444  
 <211> 1623  
 <212> DNA  
 <213> Homo sapiens

<400> 444

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcagcagct | aagaagggg  | agtcctgaac | ttgtctgaag | cccttgccg  | taagccttga | 60  |
| actacgttct | taaatctatg | aagtcgagg  | acctttcgt  | gctttttag  | ggacttcttt | 120 |
| ccttgcttca | gcaacatgag | gcttttcttg | tggaacgcgg | tcttgactct | gttcgtcact | 180 |

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| tcttttgattg | gggctttgat  | ccctgaacca  | gaagtgaaaa  | ttgaagttct | ccagaagcca | 240  |
| ttcatctgcc  | atcgcaagac  | caaaggaggg  | gatttgatgt  | tggccacta  | tgaaggctac | 300  |
| ttagaaaagg  | acggctcctt  | atttcactcc  | actcacaaac  | ataacaatgg | tcagcccatt | 360  |
| tggtttacc   | tgggcatcct  | ggaggctctc  | aaagggttggg | accagggtct | gaaaggaatg | 420  |
| tgtgtaggag  | agaagagaaa  | gctcatcatt  | cctcctgctc  | tgggctatgg | aaaagaagga | 480  |
| aaaggtaaaa  | ttcccccaga  | aagtacactg  | atatttaata  | ttgatctcct | ggagattcga | 540  |
| aatggaccaa  | gatcccatga  | atcattccaa  | gaaatggatc  | ttaatgatga | ctggaaactc | 600  |
| tctaaagatg  | agggttaaagc | atattttaag  | aaggagtttg  | aaaaacatgg | tgcggtggtg | 660  |
| aatgaaagtc  | atcatgatgc  | tttggtggag  | gatatttttg  | ataaagaaga | tgaagacaaa | 720  |
| gatgggttta  | tatctgccag  | agaattttaca | tataaacacg  | atgagttata | gagatacatc | 780  |
| taccctttta  | atatagcact  | catctttcaa  | gagagggcag  | tcatctttaa | agaacatttt | 840  |
| atttttatac  | aatgttcttt  | cttgctttgt  | ttttatttt   | tatatatttt | ttctgactcc | 900  |
| tattttaaaga | accccttagg  | tttctaagta  | cccatttctt  | tctgataagt | tattgggaag | 960  |
| aaaaagctaa  | ttggtctttg  | aatagaagac  | ttctggacaa  | tttttacttt | tcacagatat | 1020 |
| gaagctttgt  | tttactttct  | cacttataaa  | tttaaaatgt  | tgcaactggg | aatataccac | 1080 |
| gacatgagac  | caggttatag  | cacaaattag  | caccctatat  | ttctgcttcc | ctctattttc | 1140 |
| tccaagttag  | aggtaacat   | ttgaaaagcc  | ttttgcaata  | gccaaggct  | tgctattttc | 1200 |
| atgtttataat | gaaatagttt  | atgtgtaact  | ggctctgagt  | ctctgcttga | ggaccagagg | 1260 |
| aaaatggttg  | ttggacctga  | cttgttaatg  | gctactgctt  | tactaaggag | atgtgcaatg | 1320 |
| ctgaagttag  | aaacaaggtt  | aatagccagg  | catggtggct  | catgcctgta | atcccagcac | 1380 |
| tttgggaggc  | tgaggcgggc  | ggatcacctg  | aggttgggag  | ttcgagacca | gcctgaccaa | 1440 |
| cacggagaaa  | ccctatctct  | actaaaaata  | caaaagtagc  | cgggcgtggt | gatgcgtgcc | 1500 |
| tgtaatccca  | gctacccagg  | aaggctgagg  | cggcagaatc  | acttgaaccc | ggggcgag   | 1560 |
| gttgcggtaa  | gccgagatca  | cctccagcct  | ggacactctg  | tctcgaaaaa | aaaaaaaaaa | 1620 |
| aaa         |             |             |             |            |            | 1623 |

<210> 445

<211> 2214

<212> DNA

<213> Homo sapiens

<400> 445

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| gcagtcgcag  | catgctttcc  | gaggaagccg  | gtggtgccga  | gattgccaaa  | atgctttgga | 60   |
| gtttttaact  | gaatctaaga  | aaagtccaaa  | atagatttga  | gactgtaaaa  | acagaaactg | 120  |
| cagcaagggg  | gattcagtcg  | caatgcatca  | acaaaaaaga  | caaccagagt  | tagtggaaag | 180  |
| aaatcttcct  | gttttcgtgt  | tccccacgga  | gctcatattt  | tatgcagatg  | bcagtcac   | 240  |
| acataagcaa  | gtgttgacac  | tgtacaatcc  | ctatgagttt  | gccttaaagt  | tcaaagtttt | 300  |
| gtgtactact  | ccaaataagt  | atgttgctgt  | tgatgctgca  | ggtgcagtaa  | agcctcagtg | 360  |
| ttgtgtggat  | attgtgattc  | gtcatcgaga  | tgttcgatcc  | tgtcactatg  | gtgtaataga | 420  |
| caaattccgt  | ctccaagttt  | ccgagcaaaag | ccaaaggaag  | gctttgggga  | agaaaagagg | 480  |
| ttgttgctac  | tcttctccca  | tcagcaaaaag | aacaacaaaa  | ggaagaagag  | gaaaaaagat | 540  |
| taaaggraca  | tttaackgaa  | aktttatttt  | ttgagcagtc  | gtttcaacca  | ggtcttatca | 600  |
| caatggccat  | acttagaaca  | tgagcaagga  | tttcaattga  | cttctgagt   | aaatctgtct | 660  |
| tgaaaatatg  | aatgtggact  | gcctttttatc | tctattttcac | tccatttaaca | tgcaacaaac | 720  |
| tattgaatga  | tttcaaataa  | ttgcaaattgt | ataatatata  | ttttaaatta  | taatttaatt | 780  |
| tgaaggactg  | cagaacatta  | ttttacagac  | agcaaggatg  | cttctgagtg  | acacctagga | 840  |
| aattatttga  | agaaattctt  | tttataatcta | yacctgttgt  | gtaagaaact  | ttaaaacatt | 900  |
| kgttattttc  | tcaccttttt  | ttctaattca  | ctttgattgc  | taggggtcat  | gtatgcttcg | 960  |
| aagttacagg  | actaaaagag  | caaactgacc  | ggcctaaaac  | taaaatgaca  | tttatccct  | 1020 |
| agctacaaac  | atcagcggtta | ttatgttaat  | tataccttgcc | ctctatcat   | tataaatggt | 1080 |
| tgccatgggtg | tttctaaaaa  | taagtgtttt  | accattaatg  | tgtagagggc  | aaacaaagca | 1140 |
| taaagtacta  | agggatcatg  | cttatccctag | ggtctcacag  | aagagaggac  | atatttaatt | 1200 |
| aatcttgtga  | attacagaac  | aggttggtgt  | ccagacacca  | agaatcatag  | gggttttttt | 1260 |
| ttaaaaaac   | taatagaagt  | agggtgacct  | ctctcttttg  | tctaagagtt  | ctaaaggaag | 1320 |
| gtaggcatct  | gtttaattag  | ttggttcacc  | ctctgggtta  | tgctttgtgt  |            | 1380 |
| taataggaag  | gaaaaatcac  | tttatctttt  | cttccaaagcc | cctccctgcc  | tgacttaccc | 1440 |
| agactgggat  | taccagatac  | caggtgattt  | atgtgagat   | gattttttcac | ctttaaactc | 1500 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| taagccaagt | gtaagaaact | cttgatagct | atgtctat   | tatatcagtc | actgagactt | 1560 |
| ttttttaagt | ttttat     | tattaagaca | actttgcaa  | aaaagtc    | taagcacaac | 1620 |
| tatttacatt | tctttatagc | ctcttctgat | ctctaacaca | tatgcagttt | taactgttat | 1680 |
| tttcatagta | actgatcttt | tgtctaagga | tttttacctg | aaagcacaat | gtattgagtc | 1740 |
| tcttga     | catctttcag | atctttttac | agaatgaact | tatgcactgc | tactgtagta | 1800 |
| ttctcaagga | atatatgtaa | acacaaatgt | atgcctgagg | ttgggttttg | cagaaaacag | 1860 |
| tctctgcttc | taaaaacttc | tatgtctagt | cttccatagg | aaatcctcac | tgtttaacca | 1920 |
| tgtgaggagc | ctaagtcatt | aaacggatca | tgtctgtaca | ttgtgtaatg | aatgaaaagc | 1980 |
| acataaatgt | aatctacitt | gaactttgta | aaaatgatgt | gtggaggcta | ttcttgtttc | 2040 |
| tccatctcaa | gtcctgtgtg | tgcacgtgtg | tgcaagtgc  | catgtgtgtg | tgtaataaca | 2100 |
| cattgtaaag | aacagaaatt | actttaaaaa | ataaacagaa | atggagacct | gaaaaaaaaa | 2160 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaac | tcgagggggg | gtcccgtacc | caat       | 2214 |

<210> 446

<211> 590

<212> DNA

<213> Homo sapiens

<400> 446

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| attggatcgt | tttcctactg  | ggacgtggcc | ccagcttctc  | cgtgactctg | cagcacacct | 60  |
| gttcccaccc | tgttctgccc  | caggattgtg | ctggaagtgc  | tggttgtgct | ccgaagcatc | 120 |
| agcgaacagt | gccgccgtgt  | gtccagccag | gtcaccgttg  | cctcagagct | gagacacagg | 180 |
| cagtgggtgg | aaaggacgct  | gcggtctcgc | cagcggcaga  | actacctgcg | tatgtggagt | 240 |
| agtatcagac | tactgtcccc  | tgtgctcagc | ctgatactgt  | tactcattgc | gctggagttg | 300 |
| gtcaacattc | atgctgtttg  | tgggaagaat | gcgcatgagt  | atcagcagta | cctaaagttt | 360 |
| gtaaagtcga | tcttgcaagta | cacggagaac | ctgggtggctt | acaccagtta | cgaaaagaac | 420 |
| aagtggaatg | aaactatcaa  | tcttacrcat | acagctttgt  | tgaaaatgtg | gacttttagt | 480 |
| gagaagaaac | aaatgttaat  | acatttagcc | aagaaatcca  | caagtaaagt | actcttatga | 540 |
| aaacttgtaa | aaaaaaaraa  | ararrraaaa | aaaaamctcg  | agggggggcc |            | 590 |

<210> 447

<211> 2527

<212> DNA

<213> Homo sapiens

<400> 447

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| ctcttgctac  | cttcccggcg  | cagagaaccc | cggtctgtca | gcgcgctccg  | gggtcatgga  | 60   |
| gatccccggg  | agcctgtgca  | agaaagtcaa | gctgagcaat | aacgcgcaga  | actggggaat  | 120  |
| gcagagagca  | accaatgtca  | cctaccaagc | ccatcatgtc | agcaggaaca  | agagaggtca  | 180  |
| ggtggtgggg  | accagaggtg  | gcttctgtgg | ttgcacagtt | tggctaacag  | gcttgtctgg  | 240  |
| agcgggaaag  | actactgtga  | gcatggcctt | ggaggagtac | ctggtttgtc  | atggtattcc  | 300  |
| atgctacact  | ctggatgggtg | acaatattcg | tcaaggtctc | aataaaaaatc | ttggctttag  | 360  |
| tctgaagac   | agagaagaga  | atgttcgacg | catcgcagaa | gttgctaaac  | tgttgacaga  | 420  |
| tgtctggctta | gtgtgcatca  | caagtttcat | atcaccttac | actcaggatc  | gcaacaatgc  | 480  |
| aaggcaaatt  | catgaaggtg  | caagtttacc | gttttttgaa | gtatttgttg  | atgctcctct  | 540  |
| gcatgtttgt  | gaacagaggg  | atgtcaaagg | actctacaaa | aaagcccggg  | caggagaaat  | 600  |
| taaaagtttc  | actgggatcg  | attctgaata | tgaaaagcca | gaggcccctg  | agttgggtgct | 660  |
| gaaaacagac  | tcctgtgatg  | taaatgactg | tgtccagcaa | gttggtggaac | ttctacagga  | 720  |
| acgggatatt  | gtacctgtgg  | atgcatctta | tgaagtataa | gaactatatg  | tgccagaaaa  | 780  |
| taaacttcat  | ttggcaaaaa  | cagatgcgga | aacattacca | gcactgaaa   | ttaataaaagt | 840  |
| ggatatgcag  | tgggtgcagg  | ttttggcaga | aggttgggca | acccattga   | atggctttat  | 900  |
| gagagagagg  | gagtacttgc  | agtgccttca | ttttgattgt | cttctggatg  | gaggtgtcat  | 960  |
| taacttgtca  | gtacctatag  | ttctgactgc | gactcatgaa | gataaagaga  | ggctggacgg  | 1020 |
| ctgtacagca  | tttgctctga  | tgtatgaggg | ccgctgtgtg | gccattcttc  | gcaatccaga  | 1080 |
| gttttttgag  | cacaggaag   | aggagcgtg  | tgccagacag | tggggaacga  | catgcaagaa  | 1140 |
| ccacccttat  | attaagatgg  | tgatggaaca | aggagattgg | ctgattggag  | gagatcttca  | 1200 |
| agtcttggat  | cgagtttatt  | ggaatgatgg | tcttgatcag | tatgtctta   | ctcctactga  | 1260 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gctaaagcag | aaatttaaag | atatgaatgc | tgatgctgtc | tttgcatttc | aactacgcaa | 1320 |
| cccagtgcac | aatggacatg | ccctgttaat | gcaggatacc | cataagcaac | ttctagagag | 1380 |
| gggctaccgg | cgccctgtcc | tctcctcca  | ccctctgggt | ggctggacaa | aggatgacga | 1440 |
| tgttcctttg | atgtggcgta | tgaagcagca | tgctgcagtg | ttggaggaa  | gagttctgaa | 1500 |
| tcctgagacg | acagtgggtg | ccatcttccc | atctcccatg | atgtatgctg | gaccaactga | 1560 |
| ggtccagtgg | cattgcagag | cacggatggt | tgcaggagcc | aacttttaca | ttgttggacg | 1620 |
| agaccctgct | ggcatgcctc | atccagaaac | agggaaagt  | ctttatgagc | caagtcattg | 1680 |
| tgccaaagtg | ctgacgatgg | cccctggttt | aatcactttg | gaaatagttc | cctttcgagt | 1740 |
| tgcagcttac | aaaagaaaa  | agaagcgtat | ggactactat | gactctgaac | accatgaaga | 1800 |
| ctttgaattt | atttcaggaa | cacgaatgcg | caaacttgct | cgagaaggcc | agaaaccacc | 1860 |
| tgaaggtttc | atggctccca | aggcttggac | cgtgctgaca | gaatactaca | aatccttggg | 1920 |
| gaaagcttag | gctgttaacc | cagtcactcc | acctttgaca | cattactagt | aacaagaggg | 1980 |
| gaccacatag | tctctgttgg | catttctttg | tgggtgtctg | ctggacatgc | ttcctaaaaa | 2040 |
| cagaccattt | tccttaactt | gcatacgttt | tgtctgcct  | tatgagttct | gttttgaaca | 2100 |
| agtgtaacac | actgatggtt | ttaatgtatc | ttttccactt | attatagtta | tattcctaca | 2160 |
| atacaatttt | aaaattgtct | ttttatatta | tatttatgct | tctgtgtcat | gattttttca | 2220 |
| agctgttata | ttagttgtaa | ccagtagtat | tcacattaaa | tcttgctttt | ttccccctta | 2280 |
| aaaaaagaaa | aaaattacca | aacaataaac | ttggctagac | cttgttttga | ggattttaca | 2340 |
| agacctttgt | agcgattaga | ttttttttct | acattgaaaa | tagaaactgc | ttcctttctt | 2400 |
| ctttccagtc | agctattggt | ctttccagct | gttataatct | aaagtattct | tatgatctgt | 2460 |
| gtaagctctg | aatgaacttc | tttactaat  | aaaattaatt | ttttggcttc | ttaaaaaaaa | 2520 |
| aaaaaaa    |            |            |            |            |            | 2527 |

<210> 448

<211> 4712

<212> DNA

<213> Homo sapiens

<400> 448

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| catggtacgc | ctgcaggtag | cggtccggaa | ttcccgggtc | gaccacgcg   | tccgcccayg | 60   |
| cgtccggcgg | ctccgagcca | ggggctattg | caaagccagg | gtgcgctacc  | ggacggagag | 120  |
| gggagagccc | tgagcagagt | gagcaacatc | gcagccaagg | cggaggccga  | agaggggcgc | 180  |
| caggcaccaa | tctccgcgtt | gcctcagccc | cggaggcgcc | ccagagcgct  | tcttgtccca | 240  |
| gcagagccac | tctgcmgtcg | cctgcctc   | agtgtmtcca | actttgcgct  | ggaagaaaaa | 300  |
| cttcccgcgc | ccggcagaa  | ctgcagcgcc | tctcttagt  | gactccggga  | gcttcggctg | 360  |
| tagcckgctm | tgcgcgcct  | tccaacgaat | aatagaaatt | gttaatttta  | acaatccaga | 420  |
| gcaggccaac | gaggctktgc | tctcccgacc | cgaactaaag | ctccctcgct  | ccgtgagtg  | 480  |
| ctacgagcgg | tgtctcctgg | ggctccaatg | cagcgagctg | tgcccagagg  | gttcggaagg | 540  |
| cgcaagctgg | gcagcgacat | ggggaacgcg | gagcgggctc | cggggtctcg  | gagctttggg | 600  |
| ccgtaccca  | cgctgctgct | gctcscgcg  | gcgctactgs | ccgtgtcgga  | cgactcggg  | 660  |
| cgccctccg  | aggaggacga | ggagctagt  | gtgcggagc  | tggagcgcg   | cccgggacac | 720  |
| gggaccacgc | gctccgcct  | gcacgccttt | gaccagcagc | tggatctgga  | gctgcggccc | 780  |
| gacagcagct | ttttggcgcc | cggtttcacg | ctccagaacg | tggggcgcaa  | atccgggtcc | 840  |
| gagacgccgc | ttccggaaac | cgacctggcg | cactgtttct | actccggcac  | gtgaatggc  | 900  |
| gatcccagct | cggctgccgc | cctcagcctc | tgcgagggcg | tgcgcggcgc  | cttctacctg | 960  |
| ctgggggagg | cgtatttcat | ccagccgctg | cccgcgcgca | gcgagcgct   | ckccaccgcc | 1020 |
| gccccagggg | agaagccgcg | ggcaccacta | cagttccacc | tcttgcgggc  | gaatcggcag | 1080 |
| ggcgacgtag | gcggacgtg  | cggggctcgt | gacgacgagc | cccggccgac  | tgggaaagcg | 1140 |
| gagaccgaag | acgaggacga | agggactgag | ggcgaggacg | aagggcctca  | gtggtcgccg | 1200 |
| caggaccocg | cactgcaagg | cgtaggacag | cccacaggaa | ctggaagcat  | aagaaagaag | 1260 |
| cgatttgtgt | ccagtcaccg | ctatgtggaa | accatgcttg | tggcagcca   | gtcgatggca | 1320 |
| gaattccacg | gcagtggctt | aaagcattac | cttctcacgt | tgttttcggt  | ggcagccaga | 1380 |
| ttgtwcaaac | accccagsat | tcgtaattca | gttagccttg | tgggtggtgaa | gatcttggtc | 1440 |
| atccacgatg | aacagaagg  | gccggaagt  | acctccaatg | ctgccctcac  | tctgcggaac | 1500 |
| ttttgcaact | ggcagaagca | gcacaacca  | cccagtgacc | gggatgcaga  | gcactatgac | 1560 |
| acagcaattc | ttttcaccag | acaggacttg | tgtgggtccc | agacatgtga  | tactcttggg | 1620 |
| atggctgatg | ttggaactgt | gtgtgatccg | agcagaagct | gctccgtcat  | agaagatgat | 1680 |

|             |             |             |                      |             |             |      |
|-------------|-------------|-------------|----------------------|-------------|-------------|------|
| ggtttacaag  | ctgccttcac  | cacagcccat  | gaattaggccacgtgtttta | catgccacat  | 1740        |      |
| gatgatgcaa  | agcagtggtgc | cagccttaat  | ggtgtgaacc           | aggattccca  | catgatggcg  | 1800 |
| tcaatgcttt  | ccaacctgga  | ccacagccag  | ccttggtctc           | cttgacagtgc | ctacatgatt  | 1860 |
| acatcatttc  | tggataatgg  | tcatggggaa  | tgtttgatgg           | acaagcctca  | gaatcccata  | 1920 |
| cagctcccag  | gcgatctccc  | tggcacctcg  | tacgatgcca           | accggcagtgc | ccagttttaca | 1980 |
| tttggggagg  | actccaaaca  | ctgccctgat  | gcagccagca           | catgtagcac  | cttgtggtgt  | 2040 |
| accggcacct  | ctggtggggg  | gctggtgtgt  | caaaccaaaac          | acttcccgtg  | ggcggatggc  | 2100 |
| accagctgtg  | gagaaggga   | atggtgtatc  | aacggaagt            | gtgtgmacaa  | aaccgacaga  | 2160 |
| aagcattttg  | atacgccttt  | tcatgggaagc | tggggaatgt           | gggggccttg  | gggagactgt  | 2220 |
| tcgagaacgt  | gcggtggagg  | agtccagtag  | acgatgagg            | aatgtgacaa  | cccagtccca  | 2280 |
| aagaatggag  | ggaagtactg  | tgaaggcaaa  | cgagtgcgct           | acagatcctg  | taaccttgag  | 2340 |
| gactgtccag  | acaataatgg  | aaaaaccttt  | agagaggaaac          | aatgtgaagc  | acacaacgag  | 2400 |
| ttttcaaaaag | cttccttttg  | gagtgggcct  | gcggtggaat           | ggattcccaa  | gtacgctggc  | 2460 |
| gtctcaccaa  | aggacaggtg  | caagctcatc  | tgccaagcca           | aaggcattgg  | ctacttcttc  | 2520 |
| gttttgcagc  | ccaaggttgt  | agatggtact  | ccatgtagcc           | cagattccac  | ctctgtctgt  | 2580 |
| gtgcaaggac  | agtgtgtaaa  | agctggttgt  | gatcgcatca           | tagactccaa  | aaagaagtgt  | 2640 |
| gataaatgtg  | gtgtttgcgg  | gggaaatgga  | tctacttgta           | aaaaaatatc  | aggatcagtt  | 2700 |
| actagtgcaa  | aacctggata  | tcatgataatc | atcacaattc           | caactggagc  | caccaacatc  | 2760 |
| gaagtgaac   | agcggaaacca | gaggggatcc  | aggaacaatg           | gcagctttct  | tgccatcaaa  | 2820 |
| gctgctgatg  | gcacatatat  | tcttaatggt  | gactacactt           | tgtccacctt  | agagcaagac  | 2880 |
| attatgtaca  | aaggtgttgt  | cttgaggtac  | agcggctcct           | ctgcggcatt  | ggaaagaatt  | 2940 |
| cgcagcttta  | gccctctcaa  | agagcccttg  | accatccagg           | ttcttactgt  | gggcaatgcc  | 3000 |
| cttcgaccta  | aaattaaata  | cacctacttc  | gtaaagaaga           | agaaggaatc  | tttcaatgct  | 3060 |
| atccccactt  | tttcagcatg  | ggtcattgaa  | gagtggggcg           | aatgttctaa  | gtcatgtgaa  | 3120 |
| ttgggttggc  | agagaagact  | ggtagaatgc  | cgagacatta           | atggacagcc  | tgctdcgag   | 3180 |
| tgtgcaaagg  | aagtgaagcc  | agccagcacc  | agacctgtg            | cagaccatcc  | ctgccccag   | 3240 |
| tggcagctgg  | gggagtggtc  | atcatgttct  | aagacctgtg           | ggaagggtta  | caaaaaaaga  | 3300 |
| agcttgaagt  | gtctgtccca  | tgatggagg   | gtgttatctc           | atgagagctg  | tgatccttta  | 3360 |
| aagaaaccta  | aacatttcat  | agacttttgc  | acaatggcag           | aatgcagtta  | agtggtttaa  | 3420 |
| gtggtgttag  | ctttgagggc  | aaggcaaagt  | gaggaagggc           | tgggtgcagg  | aaagcaagaa  | 3480 |
| ggctggagg   | atccagcgta  | tcttgccagt  | aaccagtgcg           | gtgtatcagt  | aaggtgggat  | 3540 |
| tatgggggta  | gatagaaaag  | gagttgaatc  | atcagagtaa           | actgccagttg | caaatttga   | 3600 |
| taggatagtt  | agtgaggatt  | attaacctct  | gagcagtgat           | atagcataat  | aaagccccgg  | 3660 |
| gcattattat  | tattatttct  | tttgttacat  | ctattacaag           | tttagaaaaa  | acaaagcaat  | 3720 |
| tgtcaaaaaa  | agttagaact  | attacaacct  | ctgtttcctg           | gtacttatca  | aatacttagt  | 3780 |
| atcatggggg  | ttgggaaatg  | aaaagtagga  | gaaaagtgag           | attttactaa  | gacctgtttt  | 3840 |
| actttacctc  | actaacaatg  | gggggagaaa  | ggagtacaaa           | taggatcttt  | gaccagcact  | 3900 |
| gtttatggct  | gctatggttt  | cagagaatgt  | ttatacatta           | tttctaccga  | gaattaaaac  | 3960 |
| ttcagattgt  | tcaacatgag  | agaaaggctc  | agcaacgtga           | aatacgcaa   | atggcttcct  | 4020 |
| ctttcctttt  | ttggaccatc  | tcagtcttta  | tttgtgtaat           | tcattttgag  | gaaaaaaca   | 4080 |
| ctccatgtat  | ttattcaagt  | gcattaaagt  | ctacaatgga           | aaaaaagcag  | tgaagcatta  | 4140 |
| gatgctggta  | aaagctagag  | gagacacaat  | gagcttagta           | cctccaactt  | cctttctttc  | 4200 |
| ctaccatgta  | acctgctttt  | gggaatatgg  | atgtaaaagaa          | gtaacttggt  | tctcatgaaa  | 4260 |
| atcagtacaa  | tcacacaagg  | aggatgaaac  | gccggaacaa           | aaatgaggtg  | tgtagaacag  | 4320 |
| ggtcccacag  | gtttggggac  | attgagatca  | cttgtcttgt           | ggtggggagg  | ctgctgaggg  | 4380 |
| gtagcaggtc  | catctccagc  | agctggtcca  | acagtcgtat           | cctggtgaat  | gtctgttcag  | 4440 |
| ctcttctgtg  | agaatatgat  | tttttccata  | tgtatatagt           | aaaatatgtt  | actataaatt  | 4500 |
| acatgtactt  | tataagtatt  | ggtttgggtg  | ttccttccaa           | gaaggactat  | agttagtaat  | 4560 |
| aaatgcctat  | aataacatat  | ttatttttat  | acatttattt           | ctaataaaaa  | aaacttttaa  | 4620 |
| attatatcgc  | ttttgtggaa  | gtgcatataa  | aatagagtat           | ttatacaata  | tatgttacta  | 4680 |
| gaaataaaaag | aacacttttt  | gaaaaaaaaa  | aa                   |             |             | 4712 |

<210> 449

<211> 1051

<212> DNA

<213> Homo sapiens

```

<400> 449
ggtttttccc gggatacatc tgtgttgagt cacttttgat tcaacagtgc ctgccacca 60
aatcataca taagaggaaa actaggactg gaagaatatg ctgtctttta cccaccaa 120
ggtgttatcc cttttcatgg attttcaatg tatgttgac cactttgttt tctataccat 180
gaaccttcca aattgtatca gatattccgt gagatgtatg tgcgtttttt cttcagactc 240
cattccatct cttctcatcc ttctgggtatt gtgtcactct gtctgctgtt tgaaactctt 300
cttcaaactt atcttcccca actcttttat catctacgag aaattggggc tcaaccactt 360
cgcatatcat ttaagtggat ggttcgagct ttctctggat acttagctac agatcagctc 420
ttgcttttat gggatagaat cctaggatac aactctctgg aaattcttgc tgtgctggca 480
gctgccgtgt ttgctttccg agcagtgaac ctgatggagg tgacatcact ggctgcagct 540
gaaaatctag ctgcccacag tgaacagttc tgcactgctc ctctattccc tgagctttac 600
agagtccaga tccctgtact gctgaactca ggcagaaaga agagtgcagt ttattggact 660
ccaatctcat tcaacagaac aaagaagttg aggttgcaag gaagaacctc taatgatggg 720
tcatggaata taacctagaa aagaagagaa ataaaagaga ctgtgtttca ccatgttgcc 780
caggctggct tcgaacttct gagctcaagc aatccaccct cctcagcctc cagaagtgtc 840
gggattacag gcatgagaca ccaagtccag ccataagggtt cttattctat atatacatga 900
aatgatatca cttgaaggta gactgtgata agttaataac gtatatTTTT taaatcttca 960
aacaaccact aaaataaaag aacaaagagt tacaactaaa aaaaaaaaaa aaaaaactac 1020
gtaggggggg acggcgtacc caattacgcc c 1051

```

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<210> 450
<211> 707
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc_feature
<222> (562)..(562)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (570)..(570)
<223> n equals a,t,g, or c

```

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<400> 450
gggtcgaccc acgcgtccgc aacgcgtcc ggtttctaca acccttagga acatcagaat 60
catgtgtgtg tgggtgctta ttaaataaam sagttcctgg agctcactcc cagtgactgc 120
cagtctgatg attaggggct cagctaggac ctagggtttgc gaaagctccc agctgatctc 180
atgcagccag cctggctctg gctctggckc tgggagctgg gttgggaact agctttgggt 240
gctattctgc tgawacttca agatgggctc tttgactccg tcttgtattg tcakcacttg 300
tattcaggctc tgttcttccc ctggattgta aactccttga tgtctgggtc atctcagctc 360
atgagctgag cttwcagtgg gtgctcagtg gaacagatgc tgaatggagt caggctgtag 420
ggaggccagc gtgtgttggg aagtgagaga caaaaatcat tttaaaaaga atctttttgc 480
ccttcagttg tgtttgccat gagttaatgt gatttactct agtggaagcc agtgcagctt 540
aagtggaggt cttgccctga antggagccn ggttatggat cagcagagct gccaaaagcg 600
ttttggggga aatgtttctg tgtcacccctc agttgattga actcaattt tcaactccgt 660
ttaacaccac gtggggggcca ttctgacttc tgcggagtgg gtatgat 707

```

```

<210> 451
<211> 1945
<212> DNA
<213> Homo sapiens

```

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<400> 451
gagcttgtaa gaaggctcat gccattgacc ctcttaattc tctcctgttt ggcgagctg 60
acaatggcgg aggctgaagg caatgcaagc tgcacagtca gtctaggggg tgccaatatg 120

```



|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| gcagagaccc  | acaaagccat  | gacctgcaa  | ctcaatccca | gtgagaactg | cacctggaca  | 180  |
| atagaaagac  | cagaaaacaa  | aagcatcaga | attatctttt | cctatgtcca | gcttgatcca  | 240  |
| gatggaagct  | gtgaaagtga  | aaacattaaa | gtctttgacg | gaacctcag  | caatgggcct  | 300  |
| ctgctagggc  | aagtctgcag  | taaaaacgac | tatgttcctg | tatttgaatc | atcatccagt  | 360  |
| acattgacgt  | ttcaaatagt  | tactgactca | gcaagaattc | aaagaactgt | ctttgtcttc  | 420  |
| tactacttct  | tctctcctaa  | catctctatt | ccaaactgtg | gcggttacct | ggataccttg  | 480  |
| gaaggatcct  | tcaccagccc  | caattaccca | aagccgcata | ctgagctggc | ttattgtgtg  | 540  |
| tggcacatac  | aagtggagaa  | agattacaag | ataaaactaa | acttcaaaga | gattttccta  | 600  |
| gaaatagaca  | aacagtgcaa  | atttgatttt | cttgccatct | atgatggccc | ctccaccaac  | 660  |
| tctggcctga  | ttggacaagt  | ctgtggccgt | gtgactccca | ccttcgaatc | gtcatcaaac  | 720  |
| tctctgactg  | tcgtgtttgc  | tacagattat | gccaatctct | accggggatt | ttctgcttcc  | 780  |
| tacacctcaa  | tttatgcaga  | aaacatcaac | actacatctt | taacttgctc | ttctgacagg  | 840  |
| atgagagtta  | ttataagcaa  | atcctaccta | gaggctttta | actctaattg | gaataacttg  | 900  |
| caactaaaag  | acccaacttg  | cagaccaaaa | ttatcaaagt | ttgtggaatt | ttctgtccct  | 960  |
| cttaattggat | gtggtacaat  | cagaaaggta | gaagatcagt | caattactta | caccaatata  | 1020 |
| atcacctttt  | ctgcatcctc  | aacttctgaa | gtgatcacc  | gtcagaaaca | actccagatt  | 1080 |
| attgtgaagt  | gtgaaatggg  | acataattct | acagtggaga | taatatacat | aacagaagat  | 1140 |
| gatgtaatac  | aaagtcaaaa  | tgcactgggc | aaatataaca | ccagcatggc | tctttttgaa  | 1200 |
| tccaattcat  | ttgaaaagac  | tatacttgaa | tcaccatatt | atgtggattt | gaaccaaaact | 1260 |
| ctttttgttc  | aagttagtct  | gcacacctca | gatccaaatt | tgggtggtgt | tcttgatacc  | 1320 |
| tgtagagcct  | ctcccacctc  | tgactttgca | tctccaaact | acgacctaat | caagagtgga  | 1380 |
| tgtagtcgag  | atgaaaacttg | taagggtgat | cccttatttg | gacactatgg | gagattccag  | 1440 |
| tttaatgcct  | ttaaattctt  | gagaagtatg | agctctgtgt | atctgcagtg | taaagttttg  | 1500 |
| atatgtgata  | gcagtgacca  | ccagtctcgc | tgcaatcaag | gttgtgtctc | cagaagcaaa  | 1560 |
| cgagacattt  | cttcatataa  | atggaaaaca | gattccatca | taggacccat | tcgtctgaaa  | 1620 |
| agggatcgaa  | gtgcaagtgg  | caattcagga | tttcagcatg | aaacacatgc | ggaagaaaact | 1680 |
| ccaaaccagc  | ctttcaacag  | tgtgcatctg | ttttccttca | tggttctagc | tctgaatgtg  | 1740 |
| gtgactgtag  | cgacaatcac  | agtgaggcat | tttgtaaact | aacgggcaga | ctacaaaatac | 1800 |
| cagaagctgc  | agaactatta  | actaacaggt | ccaaccctaa | gtgagacatg | tttctccagg  | 1860 |
| atgccaaagg  | aaatgctacc  | tcgtggctac | acatattatg | aataaatgag | gaagggcctg  | 1920 |
| aaagtgcac   | acaggcctgc  | atgtc      |            |            |             | 1945 |

<210> 452

<211> 599

<212> DNA

<213> Homo sapiens

<400> 452

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| gaattcggca  | cgagcgtcca  | cgcagccgcc | ggccggccag | cacccagggc | cctgcatgcc | 60  |
| aggctggttg  | agggtggcagc | gagacatgca | cccggcccgg | aaactcctca | gcctcctctt | 120 |
| cctcatcctg  | atgggcactg  | aactcactca | agactccgct | gcccccgact | ccctgctgag | 180 |
| aagttcaaag  | ggcagcacga  | gggggtcttt | ggctgctatt | gtcatctgga | gggggaagag | 240 |
| tgagagccgg  | atagccaaga  | ccccaggcat | tttcagaggt | ggcgggacct | tagtcctacc | 300 |
| cccaacacac  | acccctgagt  | ggctatcct  | ccctttgggc | ataacgctgc | ccttgggggc | 360 |
| tccagaaaaca | ggcgggtggg  | attgtgccgc | tgagacctgg | aagggcagcc | agcgtgccgg | 420 |
| ccagctgtgt  | gcattgctgg  | cttaatatgc | agggttggg  | gggctgtggc | cacatgcccc | 480 |
| gcaggaggtg  | agtgaggagc  | cctgtggcgt | gctggtgtgg | ggatcgtggg | catttcaaac | 540 |
| gggcttgtcg  | taccctgaac  | aatgtatcaa | tagagaaaaa | aaaaaaaaaa | aaaactcga  | 599 |

<210> 453

<211> 978

<212> DNA

<213> Homo sapiens

<400> 453

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgagca | cttaatctca | ggtgaacgca | tcacttgcca | aactgttggg | atgctatttg | 60  |
| tgttttgttg | cactgttttt | ttcgtttgtt | tgttttgttt | tttggttggc | tttttgagga | 120 |

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gggaaatttg  | gaaacgggac | atacacaaaa | gttacacacc | cacattccct  | ttttatcatg | 180 |
| acatacaaga  | agaaactagc | agagctaaga | atggagtga  | gaaaggcagt  | atggcaggca | 240 |
| ccagcaaaga  | gttgagggt  | gttgctctta | aaaattat   | ttttattat   | tatttgaaa  | 300 |
| gtatggaagt  | tttcattca  | ctggggaaa  | gagggaag   | tgcatttatt  | tttatacaga | 360 |
| gttactta    | tacctcaaa  | acacatatgt | tggaaatcgc | ttttgctggt  | gcaaagtata | 420 |
| ttaatgagca  | ggaatacata | cattgagggt | atgaatagag | agctcaattt  | gtacctttgc | 480 |
| tgtcttgctc  | aagcttggt  | tggcatgaaa | actcgacttt | attccaaaag  | taacttcaaa | 540 |
| atttaaaata  | ctagaacgtt | tgctgcgata | aatcttttgg | atttttgtgt  | ttttctaata | 600 |
| agaatactgt  | ttttcattac | ctaaagaaca | atttgctaaa | catgagaaat  | cactcacttt | 660 |
| gattatgtat  | agattacata | ggaagaacaa | tcacatcagt | aagttatagtt | tatatataaa | 720 |
| ggtaattttc  | tggttggtca | taacaaatat | accagcattc | atgatagcat  | ttcagcattt | 780 |
| tccaagggtac | caagtgtact | tattttgttg | ttgttggtgt | tggtgtattt  | tagaaggaat | 840 |
| tcagctctga  | tgtttttaaa | gaaaaccagc | atctctgatg | ttgcaacata  | cgtgtaaaaa | 900 |
| gggtgttaca  | tctatcctgc | catttaaccc | cacagttaat | aaagtggctg  | aaaataataa | 960 |
| aaaaaaaaaa  | aaaaaaaaaa |            |            |             |            | 978 |

<210> 454  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 454  |            |            |            |             |            |     |
| ccacgcgtcc | gcacagactc | tcttgcccc  | ctgtcctttt | ggaaagaagac | agggatgaa  | 60  |
| atataatcaa | gcaattaacc | accccatca  | tcaccaagaa | caacagtatc  | aacaagaaga | 120 |
| acagggacaa | caaaaccac  | ggatgaaaca | ttctttctc  | agctcagatc  | ttatctggtg | 180 |
| cgttctctct | ctgctctgtc | ttggtgtgtg | gtttagagaa | acatggacaa  | cgctgtttgg | 240 |
| aagaacaggg | cttcccagga | atcaacaatg | ccaagaagg  | aagggtattgt | agaaatagct | 300 |
| taaccctttc | atttaccac  | gtggaaattg | aagcccaggg | aagggaaggg  | accggtcgtg | 360 |
| gaaggagag  | ccatcagcag | aaagagacc  | tgagatcttc | gcctgggatt  | cccaggaagt | 420 |
| ccagcccag  | ctgattcaca | gaataaatgc | atgcaaacct | tgcatcaat   | aaattacaca | 480 |
| tgcacttacg | taaaacacat | aaaaaaaaaa | aaaaaaaaaa | aaaaaagg    |            | 528 |

<210> 455  
 <211> 625  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (43)..(43)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (46)..(46)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (68)..(68)  
 <223> n equals a,t,g, or c

```
<400> 455
ttaccttcac ntaaggggaa caaaagctgg agctccaccg cgntgncggc cgctctagaa      60
ctagtggntc ccccgggctg caggaattcg gcacgagctc gtgccgaatt cggcacgagc      120
agcaacagca acacaggtgt ggagttgaca gacaggtaca ttgaaccaga gctgtgattt      180
agacaagcca ggaacctcat gtatgtccat aatgctgctg acattcactc ttcacttccc      240
cagcacatta ctgtcatatc tcccagagaa ttatgtcata ccttctctct tctcaaacct      300
gcaacactgg atctgctgtg ttcactctca gttggtaacc tgtttcgtat ttcagagaga      360
caatgtaagc actgagaaga gaactcttgc acactcaac acctcatctg ccacctctca      420
ccatctgtct ccttgtacta ctggagatgg tctgccctcc tcctggggag gccaaactca      480
tccacttctg cactagattc cgtcctcttt tatcttcctt acatcatgtg ttttccttct      540
atactcatca ttccttttag caataaatat ctttaaaaaa aaaactcgag gggggggccc      600
gtacccaatt cgccctatag tggag                                     625
```

<210> 456  
 <211> 597  
 <212> DNA  
 <213> Homo sapiens

```
<400> 456
tggcggccgc tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcccggc      60
cgccatcttg ggtcatcgat gagcctcgcc ctgtgcttg tcccgcttgt gaggggaagga      120
cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga tcctgttgtg      180
gatatttatt tgaacgggwt tacagatttg aaatgaagtc acaaagttag cattaccaat      240
gagaggaaaa cagacgagaa aatcttgatg gcttcacaag acatgcaaca aacaaaatgg      300
aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg gcagaggggtc      360
aggattcttg ccctgctgcc taaactgtgc gttcataacc aaatcatttc atatttctaa      420
ccctcaaaac aaagctgttg taatatctga tctctacggg tccttctggg cccaacattc      480
tccatatatc cagccacact catttttaat atttagttcc cagatctgta ctgtgacctt      540
tctacactgt agaataacat tactcatttt gttcaaaaaa aaaaaaaaaa aactcga      597
```

<210> 457  
 <211> 665  
 <212> DNA  
 <213> Homo sapiens

```
<400> 457
ggcacgagaa actccagtta atgccattta ttttgcttct tgtttgctta acctccctgc      60
cttctagggg ttataatgag aagaaactaa cagacaatat tcagtgtgag atttttcaag      120
ttctttatga agaagccaca gcatcctaca aggaagaaat cgtgcatcag ctgccagta      180
ataaaccaga agagctagaa aataatgtag atcagatctt gaaatggatt gagcagtgga      240
tcaaagatca taactcttga cttataaggc tagctactta ataatcactc ttgttgatat      300
ctctgccgac atcatagaaa ttgttcaagt gtcagtaaca ctttattaaa atcatgttgc      360
agaaccagca ggtggatagt atataggttt atgcctgtgt ttcttttctc catgagaaag      420
ctaaacatga aatataatga atatagtaat tattaaggga ttgagacaaa aactgtgatt      480
ttaatactta aattgctaaa gaataaataa atctgacaaa atgggtggat atcttttaag      540
tttattacag aaaaaaatgc agatgatctc ttaaaataaa actaaagata aagcaaaaaa      600
aaaaaaaaaa aaaactcgta gggggggcyc cggtacccaa tcgccctatg agtgagtcgt      660
attac                                     665
```

<210> 458  
 <211> 723  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (722)..(722)

<223> n equals a,t,g, or c

<400> 458

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tattgtagtt | agaaccatct | gacacatagc | ttttattcca | ttggtttttt | gttatgtctt | 60  |
| tctttacaag | aatttgaagt | ccatcaggcc | gggagttttg | tttggtgtgt | ttgctgctat | 120 |
| ctcccagtg  | ctaaaattgc | ctggcataca | gtaggcattt | aataatcttt | gaatcagtga | 180 |
| aaaccagatg | gtggcttggc | atttcacat  | aggaatgagc | caggtggaaa | tcatccagga | 240 |
| tataagtaga | tcttgaagt  | ataaggaagg | gtcatcataa | tcatgtgggg | cccattttgc | 300 |
| cctttcttgt | ttcttttctc | taggctcagc | aacagcctca | ccaaggactc | catgaatata | 360 |
| aaagcccata | tccacatgtt | gctagagggt | agagcagctc | acccactac  | cagactctgt | 420 |
| gtttagggtg | gtgacctgaa | gaaggaagag | agcgaaagaa | gggaaggacc | attttcct   | 480 |
| ctaaactgga | gtcaaggagg | ggaggtcaga | gcaagcctgg | gggcgtaacc | cagaccagct | 540 |
| ctttgttcaa | tctcttctgt | cctctttttc | aggggcttag | agaactacaa | ggcctgcaga | 600 |
| atttcccaga | gaagcctcac | cattgacttc | ttccccccat | cctcagacat | taaagagcct | 660 |
| gaatgccttt | gaaaaaamaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 720 |
| ang        |            |            |            |            |            | 723 |

<210> 459

<211> 2466

<212> DNA

<213> Homo sapiens

<400> 459

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| ggcagcagca | ggggcttaga | tgctgctgcg | ccatccctta  | cctgtctgtt  | tbgtttctc  | 60   |
| cttctgtccc | ttcccagctc | cagcactgag | tctcttgccc  | attggcctgg  | tgagggaagg | 120  |
| agctgccagc | cccacccaac | agctcagggt | acagagagag  | tcactttctt  | ccattactca | 180  |
| cagagtaaac | atcaaggaag | gccactgatt | gattgacagt  | gtctgggtca  | gatgtctatc | 240  |
| cttaggccag | tccctgtgaa | caaggggatg | ggtgtctgcg  | tggaccagat  | ctgaagcaca | 300  |
| ggcccatgcc | tggggccagg | ggtgggaact | atggacctct  | ctccccactg  | agaacccag  | 360  |
| ggagcaggtg | aggtgaaatt | cctctagggg | aagaggggca  | aaattgacaa  | gatagcagat | 420  |
| gtctaccata | ctgctgtggg | gcctggtccc | tcccagaagg  | aaaaacbaag  | taacaataga | 480  |
| gtgggtctca | ccctccacct | gggtctcaag | taggggtgtg  | atgaggacaa  | tggaatgaa  | 540  |
| ggaaaggtta | gaaggcctgt | ggtaccgggt | ggtaaatagc  | tcttcgtgct  | ttctccatat | 600  |
| ggagtgaag  | tgcttggtat | tgattccttc | aaagtcagggt | ctaggagact  | caggatgcct | 660  |
| aatctagagg | taagaacatt | gtgaggaaa  | ccagtgaatt  | cagtcttggt  | catgctgact | 720  |
| ttgaagtact | tttgaagag  | ccaagtggaa | ttatccacag  | gacaggacca  | aatcttacct | 780  |
| ggttcttccc | caggccgact | agtccacaac | aggaaataaa  | aagagttgcc  | ccgataccaa | 840  |
| gttgtagtag | tccattctca | caactgctat | gggaaatacc  | tgagactggg  | taattttata | 900  |
| agggaaaagg | tttaattgac | tcacagttct | agatggctgg  | ggaggcttca  | ggaaacttac | 960  |
| aatcatggca | gaaggcacca | cttcacaggg | tggcgggaga  | gagaatgagt  | gccagcgaa  | 1020 |
| gggagaagct | ccttataaaa | ccatctgttc | tccttataaa  | gatctcttaa  | taaaaccgtc | 1080 |
| agagaactat | ctcattcact | atcaggagaa | gagcatgggg  | gaaccgcccc  | catgattcag | 1140 |
| tttactccac | ctggtcccg  | ccttgacatg | tgggtgttat  | tacaatttaa  | ggtgagattt | 1200 |
| gggtggggac | acagagccaa | accatatcac | aaggctttct  | cctccttgct  | gggattgtac | 1260 |
| ccatagcctc | ttcttgagtc | ctctctcttt | tagccttttt  | atgcctgcag  | tgcataccta | 1320 |
| taccatttct | agagtcactt | ttataaaact | tatactctcc  | gtatgactca  | taaatcctgt | 1380 |
| tttttttttt | gcacagtata | ttaagtataa | atgtgttaaa  | gtcttttaat  | gtctgcccc  | 1440 |
| aagctacatt | tccattttgt | atgtctttca | gttcctttct  | actttgtatt  | tggtgtttga | 1500 |
| gttaactgaa | tttttgccat | tccattaacc | catcccatgc  | ttttccact   | tctagatttc | 1560 |
| acttttcttg | taggctagaa | tgtcttgact | gggatctgac  | tggagataat  | gagaacaaaa | 1620 |
| actggttcaa | agagccagga | tgttgcataa | aagtcctaag  | attgtatcta  | agcaggtaaa | 1680 |
| ataaaaaatt | taggcaatta | cttaaatttg | aaatgctcac  | atattattaat | aaggcatgta | 1740 |

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| acatctacat  | gagccatcat  | ttgctttttt | aattccacat  | tgattaggag | ccaaaccttc | 1800 |
| agggcaggta  | tccggttagag | cgccctggag | aggccctgga  | taggcacagg | cgctgtcag  | 1860 |
| ggggctcttc  | acatgctgtg  | tgctgctgct | gggagaagag  | ggggccagag | actagggggc | 1920 |
| ttctaagaag  | aggtggcatt  | tctgcctcag | tggtgaagga  | tgaataactt | tgacaggctg | 1980 |
| gaaaaagggtg | acatttcagg  | tagagcgtgt | cacatggatg  | taaataccaa | aggtcaagga | 2040 |
| catgggcttg  | agagatgggtg | agaaggatgg | aggtgactgt  | ggcttgcatt | ctatccgtat | 2100 |
| cactattaat  | taccttctaa  | tgcccttggc | tctaggtggt  | ggaacaagta | aagtaatgga | 2160 |
| caaatacttt  | ttctaccaat  | atttagtgac | caaatgcaga  | gttatggaga | gggccaggga | 2220 |
| cctcatgaac  | catactcttt  | ctagtctagg | gacataactc  | caatgccttt | cctgtcccag | 2280 |
| taagaggcca  | tggatttcaa  | gaagccagac | aatccattct  | ttcagataat | gataaaaag  | 2340 |
| aaaccattta  | ttttatttct  | aagtatagaa | tgaaacattt  | atagttgccc | aaatttttgt | 2400 |
| accttttagg  | agaaaaatac  | agattttttt | gttggttaaaa | ataaacttaa | aaaaaaaaaa | 2460 |
| aaaaaa      |             |            |             |            |            | 2466 |

<210> 460

<211> 1739

<212> DNA

<213> Homo sapiens

<400> 460

|             |             |             |             |              |            |      |
|-------------|-------------|-------------|-------------|--------------|------------|------|
| ggcacgagag  | atcctcagga  | tatcttttagc | caaaggaaaa  | gctccgcatt   | cccacctggg | 60   |
| gggaaagctg  | gattgccatg  | ggcacgaagt  | agtgggtgcag | agtccctggc   | catcctgaat | 120  |
| atccagaatg  | tggttttctga | agttcttctg  | catgagtttc  | ttctgccacc   | tgtgtaagg  | 180  |
| ctacttcgat  | ggccccctct  | accagagat   | gtccaatggg  | actctgcacc   | actacttcgt | 240  |
| gcccgatggg  | gactatgagg  | agaacgatga  | ccccgagaag  | tgccagctgc   | tcttcagggt | 300  |
| gagtgaccac  | agggcgtgct  | cccaggggga  | ggggagccag  | gttggcagcc   | tgctgagcct | 360  |
| cacctgcgg   | gaggagtta   | ccgtgctggg  | ccaccagggtg | gaggatgctg   | ggcgcgtgct | 420  |
| ggagggcatc  | agcaaaagca  | tctcctacga  | cctagacggg  | gaagagagct   | atggcaagta | 480  |
| ctgcggcg    | gagtcocacc  | agatcgggga  | tgccactcc   | aactcggaca   | aatccctcac | 540  |
| tgagctggag  | agcaagttca  | agcagggcca  | ggaacaggac  | agccggcaggag | agcaggct   | 600  |
| caacgaggac  | tttctgggaa  | tgctggtcca  | caccaggctc  | ctgctgaagg   | agacactgga | 660  |
| catctctgtg  | gggctcaggg  | acaaatacga  | gctgctggcc  | ctcaccatta   | ggagccatgg | 720  |
| gacccgacta  | ggtcggctga  | aaaatgatta  | tcttaaagta  | taggtggaag   | gatacaaatg | 780  |
| ctagaaaagag | ggaatcaaat  | cagccccgtt  | ttggaggggtg | ggggacagaa   | gatggggcta | 840  |
| catttcccc   | atacctacta  | tttttttata  | tcccgatitg  | cactttgaga   | atacatctaa | 900  |
| ggtcatcttt  | caaaagagaa  | aaattggaca  | cttgagtgc   | tttgttttta   | gttttgtttt | 960  |
| tgtacattat  | ttatgtgatt  | gttatggaat  | tgtcacctgg  | aaagacaat    | tttaagcaat | 1020 |
| gtcattttcta | gatgggtttc  | taattctgca  | gagacaccgg  | tttcagccac   | atctaaaaga | 1080 |
| gcacagttta  | tgtgggtgcg  | aattaaactt  | ccccatcctg  | cagattatgt   | ggaaataccc | 1140 |
| aaagataata  | gtgcatagct  | cctttcagcc  | tctagccttc  | actcctgggc   | tccaaaagct | 1200 |
| atcccagttg  | cctgtttttc  | aaatgagggt  | caagggtgctg | ctttgcatgc   | ctgccaaccc | 1260 |
| atggaagttg  | tttcttactt  | cttttctctc  | ttatttatta  | accatggctt   | gagagttgtt | 1320 |
| tttgttctat  | gtaacagtat  | tgccacaaaa  | ctataggcaa  | atcgtgtttg   | caggagatt  | 1380 |
| tctgatgcct  | ctgtgggtgt  | gtgtaagtta  | aagtggcc    | atttaagaag   | gccaaagctt | 1440 |
| gtagtggttg  | cacagtcaca  | ctgatatgct  | gatttgctct  | ttctcattgt   | atgtctatgc | 1500 |
| tttgtcatca  | gtgctatagt  | aaattacaaa  | gaaataggta  | gattgtatga   | acatacccac | 1560 |
| aatgcctat   | gatttaggtt  | accaatgtat  | tctttctcat  | ttggggtttt   | gcttctgtct | 1620 |
| gtctgtttat  | tggaacttg   | tacttcaagt  | agggggaatc  | ctaattctaa   | taactcctta | 1680 |
| gctaagtttt  | attattcagg  | caataaacat  | gttttcatgt  | aaaaaaaaaa   | aaaaaaaaaa | 1739 |

<210> 461

<211> 1139

<212> DNA

<213> Homo sapiens

<400> 461

|            |          |            |           |            |            |    |
|------------|----------|------------|-----------|------------|------------|----|
| ggcacgaggt | cactccta | gtaggatggg | acgattgcc | caagctctgt | cgtgagtggt | 60 |
|------------|----------|------------|-----------|------------|------------|----|

|            |             |             |            |            |                      |      |
|------------|-------------|-------------|------------|------------|----------------------|------|
| tgattgacgg | ttttcttaag  | ggaacaatgc  | tgggaaagat | gataggcgcc | cgccactgac           | 120  |
| ccctcccgcc | tcctgcccc   | tccagtaaac  | tcccacacaa | aatagcagta | tgaggtgtgg           | 180  |
| ggaaataatc | ttggcctccg  | tcctgggttt  | acttttgact | ctgccaccta | caagctgtca           | 240  |
| cctgaacaag | tcctttccgt  | tcctgtgtct  | tccttggtca | caagctctaa | gcctgaaccc           | 300  |
| acactctggg | aatgaagcag  | ggtagcggcc  | tctgcttcag | caactctgag | gggtctacct           | 360  |
| tgggtgggga | gttggcctca  | tccagagggc  | tgctggaggg | ccaagacaag | gctctgggtg           | 420  |
| ggaggtgtgc | tgagagggga  | ttgcttatcc  | cæcaccagc  | ttttctgggg | gaggtgggga           | 480  |
| agtgatgggt | aaaaaatgga  | gttcctgcta  | tcagccatgt | cctgatgaat | tggaagtcc            | 540  |
| ccttctttct | cctttcctct  | tgcatctcct  | gcctgcttcc | cctgcctgcc | ctcctgtgac           | 600  |
| atgtgccttc | tccagcaggt  | atgtcacaca  | gcaccccaag | ggaagggcag | tgtaacgctc           | 660  |
| ttttccatga | tggaactacca | cagccagagg  | aagacaggcc | ttcccttctt | ttctagttct           | 720  |
| ttttggtttg | aaaacaaggc  | actcttattt  | tcccttcca  | agaagctggt | ggttcacacg           | 780  |
| ggccagcaca | cacattatca  | aagacctagt  | ttgtttctag | taaatgagtc | cattgaagtg           | 840  |
| ggagccttgg | ccgggcaagg  | tggtcæac    | ctgtaatccc | agcactttgg | gaggccgaga           | 900  |
| tgggtggatt | gagatcgaga  | ccatcctggt  | caacatggtg | aaaccctgtc | tctactaaaa           | 960  |
| atacaaaaaa | tagctgggcg  | tggtgacaca  | ccactgtagt | cccagctact | caggagctg            | 1020 |
| aggcaggaga | atcgcttgaa  | cctggggaggc | ggaggtaaca | gtgagccgag | attg <del>cgæc</del> | 1080 |
| tgcactccag | cctgggcgac  | agagtgagac  | tgtctctcca | aaaaaaaaaa | aaaaaaaaaa           | 1139 |

<210> 462

<211> 2648

<212> DNA

<213> Homo sapiens

<400> 462

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcacgagct  | tgtaggtact  | cattgaggtt  | tattgtgtaa  | gatgaatgaa  | tgttgcaaat  | 60   |
| tcctaaacat  | gtgattcaga  | tgcccætct   | tactctgtta  | ctttatgaaa  | attttttaaa  | 120  |
| gctatatgat  | gttatatcaa  | aatatgttgt  | tatacttttag | gataatcggg  | gtgttagccc  | 180  |
| tgaatttcag  | cataagtcce  | atttttttcc  | atgggagctc  | aggaaagcta  | tatgtttatt  | 240  |
| cagcagcaaa  | atacagtttg  | gaacttaaat  | aaactattga  | tcaatttctg  | gtcttagct   | 300  |
| agaaggaata  | aagcatcaag  | aaaaagaaaa  | gatttgctgt  | caagaccagg  | aaaatttgac  | 360  |
| aatagagtat  | tagaatgcag  | gaaatgaggg  | gaagtggaaa  | ggcagcaagt  | aggagagaaa  | 420  |
| aagtgcaggg  | acagtagaaa  | gtgaatgtag  | gagctttctg  | acccatgcac  | ttcaggaacg  | 480  |
| caattcatcc  | ctaaaatgct  | gtttgctgtc  | ttaggttgca  | agtaaccaaa  | ttaaaaccag  | 540  |
| tttgaaagta  | gagtgcagaca | gctgtcatca  | taagagtcac  | ttgatctgtt  | taaaggtggc  | 600  |
| tgcttgtatg  | cagggaccaa  | cagtcatgtc  | cagggcagca  | gctggtgcac  | acttcaagca  | 660  |
| gaccacataa  | gagctacccc  | aggcagcacc  | tgctaccaat  | agtgcacaaa  | ætcagagag   | 720  |
| acctcgttgg  | cataagggaa  | tactctctcc  | tttctgagta  | aagagcaagt  | agaactaaag  | 780  |
| gtttcacatt  | ttaaacatac  | tttacattcc  | tcctcttctg  | gggctcaagc  | ctacttttgg  | 840  |
| gccaaagcgg  | atgttatatc  | tgacatagag  | tcctcggagc  | agcagttgtt  | cctgaaagt   | 900  |
| cctttttgca  | tccttggtgc  | tcacgacgtg  | gcttacaggt  | caaccagact  | tctcccctga  | 960  |
| cttttgatgt  | gtaagagctt  | gtgtttcaaa  | tgggtttggg  | tttcttaatg  | tcaccctagg  | 1020 |
| ttggtggaaa  | ggagagtaaa  | tggaaatggg  | gggagcaggg  | tcccctgggg  | agggtttaa   | 1080 |
| agatggaagt  | caattgtctc  | ttgagaatag  | aggaggctat  | tgagtttca   | ttccacactc  | 1140 |
| tgctcctgtt  | ctgtcagcaa  | agaacaagga  | ctactctcca  | gcaattgctt  | tcactgggac  | 1200 |
| tccccacccc  | cggctccccc  | aaaaacctag  | ggatcaactt  | agttcactcc  | aaattagaaa  | 1260 |
| atttaaatagt | catttggttc  | ttcttggtcca | cagggagaa   | cattttcttt  | ccttctttca  | 1320 |
| aaattgccca  | ggtcttggtga | agggttatta  | acaccagaaa  | gaaatacatt  | ttaataagct  | 1380 |
| taaatctcat  | ttctacatga  | aaccatcaga  | tttttagtact | gcaatatatt  | gatccctctg  | 1440 |
| tcttttaggc  | tctgacacca  | aaattgccat  | aatgaaggtg  | tttcaacttct | tctcatattat | 1500 |
| ttttatggga  | tcttttattc  | ccaaatgcct  | tttcatccag  | ccaaaggga   | gaaatgttga  | 1560 |
| tagatctgcc  | atcaagaagg  | ttccaaagct  | ggcctgtcag  | gttttctgtt  | tccttgttta  | 1620 |
| ttatctttga  | acttttggtt  | taaatgtttt  | aaacacttat  | ttacatgta   | actaaatgcc  | 1680 |
| tgatagcatt  | gaaagtactt  | tatgggtttt  | aatttattta  | atgctcatga  | aaccctatga  | 1740 |
| ggtaggtact  | gatattatct  | ttatcttact  | gatgaggaaa  | gtgaagcaaa  | gagaagtgaa  | 1800 |
| atgaaaggta  | gtgagtgtg   | ggaccagggt  | ttggacatgg  | gcagtctggc  | tctaaaatgt  | 1860 |
| atgcttttaa  | ctactatgta  | atgctgcctc  | accaacaact  | tgtctcacia  | attgatattc  | 1920 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tggatcagag | gatgtcgact | ggcctgcaaa | tgtatttgt  | atggctcata | cacagttcag | 1980 |
| aagttttaaa | aatttacata | gaaatctgca | tttcctgact | tcttttgaaa | atgggaatac | 2040 |
| caaacatcat | taggcttgaa | ttcccaatac | ggcaacaaca | gctgagcaac | aagcagctgt | 2100 |
| ttagactagg | caccttccgt | tcattccagc | ccacaatgca | gatcatagta | tcgacttaaa | 2160 |
| tttcctgcct | gccttagaga | agcttctgag | cttgtgacct | ctattctagc | tgctctatga | 2220 |
| atggacgctg | ccccagtaca | gcgaggacct | gctgcaaaat | gcatttctta | gtcttcaata | 2280 |
| cttattcctc | cttgtaactg | gatttctggt | aagttatgtc | tcatggtgga | tctgccccaa | 2340 |
| agatggagac | tgaatggcag | tgagtcactc | gccctggcct | ccattgttct | ggagaagggt | 2400 |
| ccagccacat | ggttgatgtc | agctggtttt | ccagagccag | agctgggttg | caggacagac | 2460 |
| acacctgcat | ctaatagtga | aaggcaaatg | tgaaggcca  | agaccagcct | gaggtctgag | 2520 |
| ggaccaaggg | cttcacagag | gccagaagtt | cagaggtgga | cataaaaggt | gttaggagaa | 2580 |
| taagggaagt | aaaagaacat | agtacagtgt | atcagaggag | gagctccagg | ctggcaata  | 2640 |
| tcactccc   |            |            |            |            |            | 2648 |

<210> 463

<211> 3107

<212> DNA

<213> Homo sapiens

<400> 463

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcacgagag  | atagggttcc  | acctgagtgc  | tacagtgggtg | ccacctcaga  | tggteccctcc | 60   |
| taaaggggcc  | tacaacgtgg  | ctgtgatgtt  | tgaccgctgc  | cgggtcactt  | cctgcagctg  | 120  |
| tacctgtggg  | gctggggcca  | aatggtgcac  | ccacgtcggtg | gcactctgtc  | tcttccgcat  | 180  |
| ccacaacgct  | tctgcagtct  | gcctgcgagc  | cccagttctca | gagtcacctg  | cccggctaca  | 240  |
| gagggaccag  | ctgcaaaagt  | ttgctcagta  | cctcatcagt  | gagctccctc  | agcaggtggg  | 300  |
| tgaggtcggc  | acccccctct  | gcaattagct  | ccgggccagg  | ccgcataaca  | gccttcctgt  | 360  |
| taggcccagg  | cctccatggg  | ttcacctagg  | ccgtgttctg  | cctgcctccg  | tctctttctc  | 420  |
| cctcagatcc  | tccccacagc  | tcagcgtctc  | ctggacgaac  | tcctgtcttc  | ccagtcaca   | 480  |
| gccatcaata  | cagtgtgtgg  | agctccggac  | cccacagcag  | ggccctcagc  | atcggaccag  | 540  |
| agtacttggt  | atctggatga  | atcgacactc  | actgacaaca  | tcaaaaagac  | actgcacaag  | 600  |
| ttctgtggcc  | cctccccctgt | ggtcttcagt  | gatgtgaact  | ccatgtatct  | gtctccacg   | 660  |
| gagccgccag  | ccgctgctga  | atgggcatgt  | ctgctgcgcc  | ctctgagggg  | ccgtgagcca  | 720  |
| gagggcgtct  | ggaacctgct  | aagcatttgt  | cgggagatgt  | tcaagcggag  | ggacagcaat  | 780  |
| gctgccccct  | tgttggaat   | cctcactgac  | cagtgcctca  | cctatgaaca  | gataacaggt  | 840  |
| tggtggtata  | gcgtacgtac  | ctcagcctca  | cacagcagtg  | ccagtgggca  | cacggggcctg | 900  |
| agcaacgggc  | agtcagaggt  | ggcagcccat  | gcctgtgcca  | gcattgtgtg  | cgagatggtc  | 960  |
| acactgtgga  | ggctggccgt  | gctggaccct  | gcactcagcc  | cccagcggcg  | ccgggaactg  | 1020 |
| tgtacgcagc  | tgccgcagtg  | gcaactgaag  | gtgattgaga  | acgtcaaagg  | gggccaacac  | 1080 |
| aagaagacgc  | tggagcggct  | cttccccggc  | ttccggccag  | cggtggaggc  | ctgctacttc  | 1140 |
| aactgggaag  | aggcctaccc  | acttcctggt  | gtcacctaca  | gcggcactga  | caggaagctg  | 1200 |
| gcactgtgct  | gggcccgggc  | cctgccctct  | cggccagggtg | cctcccgcctc | tgggggcctg  | 1260 |
| gaggaatccc  | gggaccggcc  | ccgacccctt  | cctactgagc  | cagctgtgcg  | gcccgaaggag | 1320 |
| cctgggacca  | agcgaaaggg  | cttgggtgag  | ggggtcccct  | catcacagcg  | gggtccccgc  | 1380 |
| cgctctcag   | ctgaaggggg  | agataaagct  | ctacataaga  | tgggtccagg  | tgggggcaaa  | 1440 |
| gccaaaggcac | tgggtggggc  | tggcagtggt  | agcaagggtc  | cagaggtggg  | cggaagcaag  | 1500 |
| cgacggctga  | gcagcgaaga  | cagctccctg  | gagccagacc  | tggccgagat  | gagcctggat  | 1560 |
| gacagcagcc  | tggccctggg  | cgcagaggcc  | agcaccttcg  | ggggattccc  | tgagagccct  | 1620 |
| ccacctgtgc  | ctctccacgg  | tggctcccga  | ggcccttcca  | cttcccttcc  | tgagccccca  | 1680 |
| gatacttatg  | aagaagatgg  | tgggtgtgtac | ttctcggaa   | ggcctgagcc  | tcccacagcc  | 1740 |
| tctgttggcc  | cccctggcct  | actgcctggg  | gatgtctgta  | cccaggacga  | cctcccttct  | 1800 |
| acagatgaga  | gtggcaatgg  | gcttcccaaa  | accaaagagg  | cagcccctgc  | agttggagag  | 1860 |
| gaggatgatg  | actaccaggc  | gtactatctg  | aatggcccag  | atggggctgg  | gggcgaggaa  | 1920 |
| gagaaggccg  | agggcggggc  | tggggaggag  | cacgacctgt  | ttgctgggct  | gaagccactg  | 1980 |
| gaacaggaga  | gtcgcattga  | ggtactgttt  | gcctgtgctg  | aggccctgca  | tgcgcattgg  | 2040 |
| tatagcagtg  | aggcctcccg  | tctcactgtg  | gagcttgccc  | aggatctgct  | agccaaccca  | 2100 |
| cccgcacctca | aggtagagcc  | gccccctgcc  | aagggcaaga  | agaacaaggt  | atccacgagc  | 2160 |
| cgtcagacct  | gggtggctac  | caacaccctg  | agcaaggcgg  | ccttccctgtt | gacagtgcata | 2220 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| agtgagcgtc | cagagcacca | caacctggcc | ttccgagttg | gcatgtttgc | cttgaggcta | 2280 |
| cagaggcctc | cagcttctac | caaggccttg | gagtgaagc  | tggcatacca | ggagtctgag | 2340 |
| gtggctgccc | tgtcaagaa  | gatccctctg | ggtccaagtg | agatgagtac | catgcggtgc | 2400 |
| cgggcagagg | aacttcggga | ggggacactc | tgtgactatc | ggcctgtgtt | gcctctcatg | 2460 |
| ctggccagtt | tcatctttga | cgttctctgt | gctccaggta | tgatgcctga | ccctacagta | 2520 |
| agtggggaac | tggggtaggg | gtagctttct | ctaagaaaga | ccaagagccc | caagtttctg | 2580 |
| aatcaccttt | aggacccatc | aggcagcttc | atgggtaggt | ctgtgatgat | gaggattttg | 2640 |
| ggttcccttg | tattttttcc | catgcatgat | acttctgtct | gcctgactta | ccccaacttt | 2700 |
| tatacagtgg | tttctcccac | aggttcagg  | cccccaagtc | gcaactggaa | cagcgagaca | 2760 |
| cctggggatg | aggagcttgg | atltgaagca | gcagttgctg | ccttgggcat | gaagacaaca | 2820 |
| gtgagcgagg | cagaacatcc | cctcttatgt | gaaggcacac | gtcgggagaa | gggtgacctg | 2880 |
| gcattagcac | taatgatcac | ttacaaggac | gaccaggcca | agcttaagaa | gaaaattgac | 2940 |
| cgggcatggt | ggcgcgcgcc | tgtagtccca | gctactcggg | aggctgaggt | gggagaattg | 3000 |
| cttgagccca | ggagtttgag | gctacagtga | gctataatca | taccactgca | ctccagcctg | 3060 |
| ggcaacagag | cgagaccctg | tctcttaaaa | aaaaaaaaaa | aagaaaa    |            | 3107 |

<210> 464  
 <211> 1466  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| <400> 464  |             |            |            |             |            |      |
| ggcacgagct | ctacctgaat  | gttcccctag | agtttcatac | acaatgtgtt  | ggaaacctaa | 60   |
| atgtatcctt | ctcctcagtt  | ttgtatttca | gtgtgtggca | tcatcaacat  | ttgaccccct | 120  |
| aggtagtgag | agaccttgga  | gtcaacctca | atgtcccatc | tccttccctc  | tccttatac  | 180  |
| agggtgttgt | tggttctcta  | tgtcccgggt | ctcttaaaac | cacctcttct  | cctccgcctc | 240  |
| tacagacacc | aacataaatc  | aagtttccat | cttcgtttgc | ctggacaagt  | ggcaaggcag | 300  |
| cactgaaagg | atactccttc  | ctctagtctt | ctctgccttt | tgccctactga | gcccactctt | 360  |
| ctgagctgct | gataaaggaa  | tttacatacc | acacatcctt | tgatgggatt  | gccatgctac | 420  |
| aaagcagaac | ctaaatccca  | tgccctggag | ttaggcagtc | tacattctgg  | cttctgtgac | 480  |
| ttttggccta | atttttgcat  | cagccccaaa | tttctgttgt | gccaccatcc  | cagtggattc | 540  |
| tagaatttag | tcttacacaa  | tcattccata | ttcctttaat | gagtccttta  | gatttgttc  | 600  |
| attcctttca | tgtgccttat  | ccccgtacct | ggaattactt | ttcctctttt  | acttactcaa | 660  |
| gtcctgcaaa | agccagttcc  | attatgctgg | tctcactgac | ctctttctac  | atatttctgg | 720  |
| taagaatgaa | ttactttctc  | ctgaaatacc | tctgccatat | tgtttaaaaa  | ttgccatatg | 780  |
| gtgctggaca | tgagtatgtg  | ttcacatggt | tattatctac | tctagtctca  | atttctaagg | 840  |
| tcttgaatat | aggaaccaat  | ttattcatca | ccttattcca | gacatgatgg  | aactcagctt | 900  |
| tattgagaat | caagtgatta  | tagtagatag | tgaccatcct | gagtatgttc  | atgtgttaca | 960  |
| taacaatgtt | ttgggtcaacc | aaggactgca | tataggaagg | tgggctata   | agattaatat | 1020 |
| ggagctgaaa | aattcctaata | gcttagccat | atcgtagcca | tgatattgta  | gcacaatgct | 1080 |
| ttactcacgc | ggtgatgcta  | gtgtaaatgc | tgccctacca | gtcatataaa  | tgtatagcac | 1140 |
| aaggggccag | gtgggggtggc | ttacacctgt | aatctcagca | ctttgggaag  | ctgagggggg | 1200 |
| aagattgctt | gagcacagga  | atacaagtct | agcctggtta | atgtaggagg  | ggcacgtttc | 1260 |
| tacaaaaact | aaataaaatt  | agcctggcat | ggtggcatgc | acctgtagtc  | ccagctactc | 1320 |
| tggaggctga | gacggaagga  | ttgtttgagt | ccctggaggt | tgagctgcag  | tgagccatga | 1380 |
| tcatgccact | gcactccagt  | ctgggcgaca | gagcaatccc | ctttttcaaa  | aaaaaaaaaa | 1440 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaa     |            |             |            | 1466 |

<210> 465  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c



```

<400> 465
ntcttgtgcc aggcactggg atatggtgcc gaattggata caagggagat gggacgtcct      60
cctgtgtgtc ttgactgtcg gtgtgttgcc gagcattggt agcagagggg gctggtttgg      120
caccaggtta ccctgcctca tccccggggc cttggccagt ctacacagag gaactgccct      180
ccagctgagt taccattttt ccatggcagg gaggacagca gaaggccgt gttccatgac      240
taatcatagc ttccatctat tgagcattta ctgggagctg ggcactgtgc taagtgtgaa      300
acgtgtgttg actcatttac tacaacaacc tggcaaggca ggttcttccg ttagccctg      360
ctcaaagcta ggggacctgg agcacaggcg gtcaagtgtc tggctcaagg cacacagctc      420
agaagtgcag atcctctgcc cctcctggca tcccagctcg ggggggtcag ggggtgggac      480
tctgcagtca gtgcctgggg gctggatgac aagctgcagc ctccccgcaa cccacgatt      540
tccatagcgc agtgagacca gaaaga

```

```

<210> 466
<211> 1274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (722)..(722)
<223> n equals a,t,g, or c

```

```

<400> 466
agctgagtgt gcgagcgcca ggggttccag ctgcacgtcc caggctctcc agcgcgcggc      60
aggccggggc gggacgagga gagctgcggg gacaacgcct gtggctgggt ccggagtgcg      120
ggtgcggcgc gggacaagcg ggcagcatgc tcaggggcgt cgaggccacg cgacggcccg      180
gccgcgggct aacagtcgcg tcgcgccccg gggcgccctc cgaggccacg cgacggcccg      240
caccggctct tccgccccgg ggtctccctt gctactccag cggcgggggc cccagcaatt      300
ctgggccccca aggtcacggg gagattcacc gatccccac gcagcgcagg ccttcgcagt      360
tcgacaagaa aatcctgctg tggacagggc gtttcaaate gatggaggag atcccgccctc      420
ggatcccgcc agaaatgata gacaccgcaa gaaacaaagc tcgagtgaag gcttggtaca      480
taatgattgg actcacaatt atcgctgctt ttgctgtgat agtgtcagcc aaaagggctg      540
tagaacgaca tgaatcctta acaagttgga acttggaaca gaaagctaag tgscgtgaag      600
aagctgcatt ggctgcacag gctaaagcta atgatattct aagtgaacaa gtgttcacct      660
gaataccatc cctgtcatca gcaacagtag aagatgggaa aaatagaata tttacacaaa      720
tntctgccat ggttttattt tggtaaaag aagcacaatg tcttttttat ttttattttt      780
tagtaaaact ttactgaagt ataccatgca ttcaaaaagt ggacaaaact gtatacagtc      840
tgatagatat ttatgtcgtg aacacctgtg taaccactgc caaagtgaag atgtagaata      900
ttggcaacac ttcacagcct cattcctgcc ttttctcagc cattacctcc caaacatgc      960
agtttttctg agtttcatca cctttgatcc attttgacct tttttgaact ttatataaat      1020
ggattttatac attatgcact tgtgtgtgtg gattatttac ctgacagtta taaggttaat      1080
ccacaaattg tgtgtaccat tagttcatcc attgtcattg ctgtattctg ttgtataaac      1140
ataccacaat ttattttgat atttgacaca gtttctggcc actacatata atgctaaaaat      1200
gagcacattg tatatgtcat taaaatgagg ttgaactaaa aaaaaaaaaa aaaaaaaaaa      1260
aaaaaaaaact cgag

```

```

<210> 467
<211> 1217
<212> DNA
<213> Homo sapiens

```

```

<400> 467
cggcacgagg ttgaatgtta gccctggagg agatccatgt cttactcgct ctttctggcc      60
cttctgtctt ttgcctctgc aattcttttt gtagctggca cgatagcagg gactgggggt      120
ctatcctttc atgggtattg tacaatattt gtccttactg gaaaatggta acatccgggt      180
ctgatttaat tggcattaca cttacacagg gactctgagc acccccgta ccacaccaga      240

```

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cagtggacca | gttttcacag | ctacaaagag | ctagaaatgt | gtttaacatc | atccagtgca | 300  |
| tcccctaatt | caaaaccatc | ctcactaatc | aatcatattc | acccataaat | attacaaatg | 360  |
| agattgattc | catctcaaga | caattttgtc | aatacttaat | tttcttcctg | gtgatttcta | 420  |
| cttactggat | attttagaaa | gagaaatgtc | tgagataaaa | tccctcacat | ttactcaata | 480  |
| taacaaatta | ctgtttctac | tcctattctg | agtagtgctt | ctgaagattg | tttgctgtag | 540  |
| tgttgctctt | gataaaatga | atgtcagtag | tgagcctttt | agagatacca | tgctcagaaa | 600  |
| tcctcttttg | gatacaga   | tacctaataa | tctccccctt | tgcccacttg | gttagatgag | 660  |
| tgatatattc | tttgatcct  | gcaaagaaga | gattgggttc | ttttcttttc | tggtgggtgg | 720  |
| agtgggtgta | tctgtggctg | tgatgggtgt | tgttacttgt | ctctctctct | ctctggctct | 780  |
| ggcttttgct | ttcctgctag | tgttctttct | ctttccaaac | aaatagttaa | attaaacgtg | 840  |
| agcttctgaa | ttgtacttgt | tcatactttc | aaaacataac | agattaataa | aaatagatgt | 900  |
| gtcctgattt | aaaacatgcc | ccctggaaa  | gcatgctgta | ttatgaaatc | atgataatat | 960  |
| aactgcatta | ttacatggca | gtataaatat | tagtctgttg | aattcatttg | tccaattgta | 1020 |
| taactttgtg | gagcagtggt | ttgacctttg | atacataatt | ctggagcaag | tgagtggtt  | 1080 |
| gcaggcagat | gagacagtg  | tatatcagga | tttttcaatc | aacttttagt | ggaggcctgg | 1140 |
| caattacaaa | catcttcaga | tgtttctgta | accattataa | atatgaaaaa | aacctcttca | 1200 |
| aaaaaaaaaa | aaaaaaa    |            |            |            |            | 1217 |

<210> 468  
 <211> 1656  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| ggcacgaggt  | tcacagcacc  | tgattttgcaa | ggcagctata | caagttcctg  | gactcttgta | 60   |
| gttccggagt  | gtttcacctg  | accttaagcc  | caccccatcc | atctttaatc  | aagaaaccat | 120  |
| gtgctttccc  | gcatgcctgt  | gttccccctt  | cacgtgtctg | ctgtctgtgt  | ggaagcctgg | 180  |
| cctggcgcat  | gctgtggtgc  | actgcatgct  | ggaacccgtg | gagtttgca   | gcgtggtaca | 240  |
| gtatgaggcg  | ggtcacgttt  | tgtagtgtgt  | gccgtgggct | cccagagaaac | aagttaaagt | 300  |
| gtgtgctgaa  | atagatttta  | ttgacataaa  | ataagcctta | ttgctaatt   | taagagaatg | 360  |
| tgttacaaat  | gttttttgct  | aaacatcagt  | attgattatt | ctacatgatg  | tacttattga | 420  |
| cataacaacc  | tgaaattctt  | gatttttagac | aatttctcct | caagttgatt  | cagctgcatg | 480  |
| actctcagaa  | atcagtcatt  | ttttattgta  | gattgctggg | tttcttctc   | tagtttgat  | 540  |
| cgtgtatttt  | cctcctgtgg  | agaaaatgtg  | gttggcaaga | aatgccatat  | tttaaagctg | 600  |
| tatcgtggct  | gttaatgcag  | aaaacaccag  | tgtactgcag | gctgtttggc  | agtggggctg | 660  |
| gggtgagtg   | tcctgccctc  | agtggcctgt  | gtctgtgctc | ttgttcgctg  | acatgcagat | 720  |
| acaggggcag  | atctgagggt  | ttgatggagt  | gcaaggcc   | acacgtgtgg  | ctttctgtaa | 780  |
| atgcagaaac  | atggaatcct  | tgagcagaca  | cttgtcttct | ggagcacctt  | gcatggattt | 840  |
| cgctcctga   | tgcttcattg  | ccgttaatag  | agtgggtggg | gttggttat   | gagaaatttt | 900  |
| gtctaacctg  | gcttctgaaa  | tttctcaaac  | taaatattca | tgctgttttg  | tgtttttctt | 960  |
| aatgactgag  | gctagtgata  | ttactcagaa  | aagtaacagt | aacttgggtc  | ttctgagcgt | 1020 |
| caggatgttc  | accatttaac  | ttgtttctcg  | ttagtgtcta | gtacgtcggc  | tttcggtagt | 1080 |
| gtaggtgtgt  | gttctgtgtc  | ctttcccggt  | tgtgcctgca | ctagtggcag  | cctctgcttc | 1140 |
| caggctcagtt | tagagttagac | tggtctgtg   | attgctagca | agtagttgct  | gttaccagat | 1200 |
| gtagccatga  | agcccagctc  | cttggatctt  | gacatatatg | ttccaggcaa  | agtacgtaat | 1260 |
| ccagacgttt  | ctaactcttt  | ctagatgatt  | gcaattgttc | tccatgttgt  | ctgttaggcg | 1320 |
| ttatgttaat  | tctcgatcta  | acagtgtgcc  | tgtaacatat | atggtagtga  | agagacatca | 1380 |
| catgcagaga  | ccgttttccct | tttatcaact  | acaggctcgc | tatcgacgag  | agcacctttc | 1440 |
| tgctaggcag  | tcaccctact  | tcccgttgtt  | ggaggatttg | atgagagacg  | gcagtgatgg | 1500 |
| tgctgctctc  | ttagctgtga  | ttcactatta  | ttgcccagag | cagatgaaac  | tggtggtgta | 1560 |
| gtggagaatg  | cttcctgaaa  | cagatccgaa  | aaggcttaaa | ggaaaattat  | agtgtagatt | 1620 |
| gatccacata  | tatatataaa  | aaaaaaaaaa  | aaaaaa     |             |            | 1656 |

<210> 469  
 <211> 990  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (834)..(834)  
 <223> n equals a,t,g, or c

<400> 469  
 ttggaaaggg tctagctctt tctcattcac caactatatt agaagcactt gagggaaatt 60  
 taccactcca aatccaaagc aatgaacagt cttttctgga tgattttatt gcctgtgtcc 120  
 caggatcaag tggtggaagg cttgcaaggt ggcttcagcc agattcatat gcggatcctc 180  
 agaaaacatc tttgatcctg gaataaggat gatattcggt gtggttgcc taccaccata 240  
 actgttcaaa caaaagacca gtatgggat gtggtacatg ttcccaatat gaaggtaatt 300  
 ataactggat taaattagca gacatctata tactggctgc aatgactgat aaaatttttag 360  
 aaatgccaaag tgctgagrgt ccatttggtc taccctcttt atataaaggg gatgctgaa 420  
 agtttgttta aatgacttgt ttatattaat tagtcccaa gtgtccaagt tacacctgtt 480  
 tttttgtga gtttggtctt tacattttgc tactgttac ggggactcaa aggaggata 540  
 agaaagtatc catctaaaga gtgctagaca catacagtga agccctcaa tatgtattga 600  
 ttgaataaat gcatgaaaga atacattttt aaattttgtg tatagttttg aaagactcaa 660  
 gtacgttctg tgtttggtat tactgaaacc acatttttaa aataacactc attagtttag 720  
 aaatatatga gtttagattg taaaagaatg aggaattgaa atagttgtat accatattga 780  
 tgaatataga gtttttagga tacctcttac ctgaaatatt aataaaatg tttncagagc 840  
 atattatata taattatttg tgatttaatc tgttaatatg aatatctcat ttaaaacttt 900  
 tatttctgaa aaaatttatat tgaataaaat tttatatagg cagtcgccag ccctttcctc 960  
 cttcaaagtt gtcttataga gtgattggtt 990

<210> 470  
 <211> 2543  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2538)..(2538)  
 <223> n equals a,t,g, or c

<400> 470  
 ctccgttggg aacttgggct gagtaccgcg gcggggcgga gcraggcgcc ctagacatct 60  
 tctccctccc ttgctcaga tttattgcta aacatgggtgcatttttggga taaacccaaa 120  
 actgaaaaac ataatgctca tgggtgctggg aatgggtttac gttatggcct gagcagcatg 180  
 caaggatgga gagtggaat ggaagatgca cacacagctg ttgtaggat tccctacggc 240  
 ttggaagact ggtcattttt tgcagtttat gatggtcacg ctggatccc agtggcaaat 300  
 tactgctcaa cacatttatt agaacacatc actactaacg aagacttttag ggcagctgga 360  
 aaatcaggat ctgctcttga gctttcagt gaaaatgta agaattggtat cagaactgga 420  
 tttttgaaaa ttgatgaata catgcgtaac ttttcagacc tcagaaacgg gatggacagg 480  
 agtggttcaa ctgcagtggg agttatgatt tcactaagc atatctactt tatcaactgt 540  
 ggtgattcac gtgctgttct gtataggaat ggacaagtct gcttttctac ccaggatcac 600  
 aaaccttgca atccaaggga aaaggagcga atccaaaatg caggaggcag cgtgatgata 660  
 caacgtgtta atgggttcatt agcagtatct cgtgctctgg gggactatga ttacaagtgt 720  
 gttgatggca agggcccaac agaacaactt gtttctccag agcctgaggt ttatgraatt 780  
 ttaagagcag aagaggatga atttatcatc ttggcttgta atgggatctg ggatgttatg 840  
 agtaatgagg agctctgtga atatgttaaa tctaggcttg aggtatctga tgacctggaa 900  
 aatgtgtgca attgggtagt ggacacttgt ttacacaagg gaagtcgaga taacatgagt 960  
 attgtactag tttgcttttc aaatgctccc aaggtctcag atgaagcggg gaaaaaagat 1020  
 tcagagttgg ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag 1080  
 gaaggaatgc ctgatcttgc ccatgtcatg cgcactctgt ctgcagaaaa tatcccaaat 1140  
 ttgctcctg ggggaggtct tgctggcaas cgtaatgtta ttgaagctgt ttatagtaga 1200  
 ctgaatccac atagagaaag tgatgggggt gctggagatc tagaagaccc atggtagcct 1260

|            |            |             |            |              |            |      |
|------------|------------|-------------|------------|--------------|------------|------|
| taaaaacctt | ctaaaatgct | tttrattctg  | aaaattgggg | gaaaaaactt   | ttaatcacaa | 1320 |
| ttttcttcaa | tacaagggga | aaatattctt  | gcggattccc | aacgttttgt   | gatatgagca | 1380 |
| gaaaatcatt | agcatttccc | atcatttgtt  | catatttgtg | ttttctgaca   | gttgccactt | 1440 |
| gtagcattgc | ctgtactaca | gtattttttg  | ccaacctcag | gcatactcgt   | tacatctgta | 1500 |
| ttgaactttc | ggccctagaa | accagtggag  | ttatttcacc | acaaatcaac   | aatggcctg  | 1560 |
| aggtgcatgg | gaaatatagt | tagctatact  | ctgaaaatac | attatgtttt   | ttttctttaa | 1620 |
| acaaaacaca | caacatgtaa | gcatgtaaga  | gtaaagaatt | gtatgatatg   | ttcctttttt | 1680 |
| cagttcacca | agttggaagc | cttttgcagc  | tctgtggctt | ggaatttcac   | ttgagcaatt | 1740 |
| tctataggat | atgtattttt | tattgattgt  | tatttaawww | wwttccamtt   | ttacctgtat | 1800 |
| taccaaactg | ggtttctcaa | taatgtccaa  | attgtaatgt | tgcttgcctt   | caagataaag | 1860 |
| tgtatttggg | aataatatta | taaacccttm  | caaattttat | gcatgtatct   | actgcatcct | 1920 |
| tcaactctca | ctagaaaatc | ttttgaaacc  | aaatggatta | atttatggctat | tttataaatt | 1980 |
| tgctttgaca | tctcactggt | ggaaattttt  | taaagatgag | atttgccttt   | ataatgtaaa | 2040 |
| ttgtgatttt | tgttttacat | gtgggtttct  | atagttttta | ttttttcagc   | ttttaagata | 2100 |
| cagattttgt | gtaatttggg | attttttaac  | atttatgtta | ttttaaaaagc  | tcagaatatc | 2160 |
| acattgaaat | tactataaat | acattttaaaa | ttatctattt | tagatctaag   | gaaatactac | 2220 |
| agagatattt | tcatgggttc | agtaactttt  | cattttataa | cattgggcac   | ggtacagagt | 2280 |
| gattgtcaca | taagggtact | gaagatttat  | tagtttaatt | ctatttttac   | agtaaccttg | 2340 |
| aattcttctg | agttttgcat | gtattaaatt  | caattaatgc | tgaatgaa     | gagtaaagta | 2400 |
| tttatctgaa | agaagtttct | gggttaggag  | aagtaatgaa | tgtatccatt   | tgtacatggg | 2460 |
| ttacatgttg | tggaatgctt | gtaaacattt  | tctgttatgt | ttaaattgtg   | tttcagcagg | 2520 |
| atgtagttgc | ccttgtgnag | ggt         |            |              |            | 2543 |

<210> 471  
 <211> 1461  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| <400> 471   |            |            |             |            |             |      |
| aattcggcac  | gagccaaatg | attatccttt | taatcatggt  | ctactccaaa | aatatcagcc  | 60   |
| tgatgatgaa  | tttccagcct | ccgagcaaag | cctggcgggc  | ctcacagatg | atgactttct  | 120  |
| tcactctctt  | gctctttttc | ccatctttca | ccggggctct  | gtgaccctg  | gccatcacca  | 180  |
| tctggagatt  | gaagccttca | gctgactgtg | gcccttttcg  | aggtctgcct | ctcttcattc  | 240  |
| actccatcta  | cagctggatc | gacaccctaa | gtacacggcc  | tggctacctg | tgggttggtt  | 300  |
| ggatctatcg  | gaacctcatt | ggaagtgtgc | acttcttttt  | catcctcacc | ctcattgtgc  | 360  |
| taatcatcac  | ctatctttac | tggcagatca | cagaggggaag | gaagattatg | ataaggctgc  | 420  |
| tccatgagca  | gatcattaat | gagggcaaa  | ataaaatggt  | cctgatagaa | aaattgatca  | 480  |
| agctgcagga  | tatggagaag | aaagcaaacc | ccagctcact  | tgttctggaa | aggagagagg  | 540  |
| tggagcaaca  | aggctttttg | catttggggg | aacatgatg   | cagtcttgac | ttgcgatcta  | 600  |
| gaagatcagt  | tcaagaagg  | aatccaaggg | cctgatgact  | cttttggtta | ccagacacca  | 660  |
| atcaaataag  | gggaggagac | gaaaatggaa | tgatttcttc  | catgccacct | gtgcctttag  | 720  |
| gaactgcca   | gaagaaaatc | caaggcttta | gccaggagcg  | gaaactgact | accatgtaat  | 780  |
| tatcaaagta  | aaattgggca | ttccatgcta | tttttaatac  | ctggattgct | gatttttcaa  | 840  |
| gacaaaatac  | ttgggggttt | ccaataaaga | ttgttgtaat  | attgaaatga | gcctacaaaa  | 900  |
| acctaggaag  | agataactag | ggaataatgt | atattatctt  | caagaagtgt | gtgcagggaat | 960  |
| gattggttct  | tagaaatctc | tctgtccaga | ctcccagac   | ctggcaaagg | tttagaaact  | 1020 |
| gttgctaaga  | aaagtgggtc | atcctgaata | aacatgtaat  | actccagcag | ggatatgaag  | 1080 |
| cctctgaatt  | gtagaacctg | catttatttg | tgactttgaa  | ctaaagacat | ccccatgtc   | 1140 |
| ccaaaggtgg  | aatacaacca | gaggtctcat | ctctgaactt  | tcttgcgtac | tgattacatg  | 1200 |
| agtctttgga  | gtcggggatg | gaggaggttc | tgccctgtg   | aggtgttata | catgaccatc  | 1260 |
| aaagtccctac | gtcaagctag | ctttgcagtg | gcagtaccgt  | agccaatgag | atttatccga  | 1320 |
| gacgcgatta  | ttgctaattg | gaaattttcc | caatacccca  | ccgtgatgac | ttgaaatata  | 1380 |
| atcagcgctg  | gcaatttttg | acagtcctta | cggagactga  | ataagaaaaa | aaaaaaaaaa  | 1440 |
| aaactcgagg  | gggggccccg | g          |             |            |             | 1461 |

<210> 472  
 <211> 559

<212> DNA  
<213> Homo sapiens

<400> 472  
gattcggcac gagctgaagc cctgggtgcc actgctggcc cagcagggag gaggttgctg 60  
ctgctcgggc tgaagtgagg tgtgggtctg gctgggcctc cagtttccca cctgggcctt 120  
gattgtgagg aaggcctggc ctggctgcag aagcccagaa gcacctgagt aggagagttc 180  
ctttgtccca cctgcagctc attcaagcct gtgcatgggg gttgggggtcc tcaggatctt 240  
gctttcctgt ttaggggagg cagccc~~aaa~~ gagtgctggg accagtttgg agagtgctaa 300  
ggaatgctgg tctgcagcga ccctacttgt gctctgcgtc ctctgccaac tgcagcatgg 360  
gtgaacatct gtacatctgt ccccataatg aaaatggcct cagcaaataa caaaaatatt 420  
accatttagc aatcaggcac ttattaaaag cctggcccaa taaacttaa aaaaaa~~aaa~~ 480  
aaaaactcga gggggggccc ggtacccaat tcgcctata gtgagtcgta ttacgcgsgs 540  
tcamtggccg tcgtttaca 559

<210> 473  
<211> 803  
<212> DNA  
<213> Homo sapiens

<400> 473  
ggcagagcta ggccaggcag agccta~~gtc~~ ttgccagggc agcaggaagc cacacagtgt 60  
gttgaagccg gagcaggaga gggggccctg actcccatgt gtccttgca gaggagcag 120  
ttcgtggact tgtacaagga gtttgagcca agcctggta acagcaccgt ctacatcatg 180  
gccatggcca tccagatggc acctttcgcc atcaattaca aagtaaggcc tggggcc~~ctc~~ 240  
cmaaacattc actgtctgcc caccagccc caccocatga agccatctgt ccctcatccc 300  
cacagggccc gcccttcatg gagagcctgc ccgagaacaa gcccctggtg tggagtctgg 360  
cagtttca~~ct~~ cctggccatc attggcctgc tctcgggtc ctgcgccgac ttcaacagcc 420  
agtttggcct cgtggacatc ~~ct~~gtggagt tcaagctggt cattgcccag gtccctgtcc 480  
tggactcttg ctggcgctc ctggccgacc gcgtcctgca gttcttctg gggaccccg 540  
agctgaaagt gccttcctga gatggcagt ctggtaacca ctgcccaccc tggctgccgc 600  
tgggcgggaa cccaacagg gcccggggag ggaaccctgc cccaacccc ~~c~~cagcaag 660  
gctgtacagt ctgcacctg gaagactgag ctgggacccc cacagccatc cgctggcttg 720  
gccagcagaa ccagcccaa gccagcacct ttggtaaata aagcagcatc tgagatttta 780  
aaaaaaaaa aaaaaaactc gag 803

<210> 474  
<211> 819  
<212> DNA  
<213> Homo sapiens

<400> 474  
aattcggcac gagggaaact catgcacaaa caaaacagca catgctgtac tcacagccag 60  
ttacacagaa tgctcatgca tgcactgtt gcttattaat tttcttcctg ctgtttgtat 120  
cattcttttg aagaatctcc agcaagcttt gtgctttgcc caattgttta tatgtctat 180  
aatcagggg cttggaccaa atgaaatgtc ttagtagtgt ttgcaaaata tttggatatt 240  
ctgattgcgt tttattttcc cagctttaga aaacatatag atagcctctg ttgggaactt 300  
atattctcgt tactccttgt ctcttttctt ttttcaggaa ttggtcactc tttcagccaa 360  
ctcgtagggt caaacaatgt ttacatgtag tgctcagttt gttttaactt cckgctgtag 420  
acattgacag ttttlycttc cyaagagtct tatgaatagg caacaaacca aaacaaaac 480  
aggcaagtc tacgtactta caaatccagg tgaaagtgct tggatgaacag 540  
tctatgttt agcaactgtt ttttaacggt tggtgtgac attttt~~aac~~ aacagccatt 600  
gttcaattgt taaactatgt ttggatttga ggtctgaatg agctgaattc aaaatatggg 660  
actttttatt agaaaccctg gtaaagtgga cactggggaa aaagcccaag atttcatgtg 720  
tttgatttat tgactatgtg cgtcaacagc ctgcttttaa ttctcagagt aaaataaaaa 780  
tactcagaat ctaaaaaaaa aaaaaaaaaa aaaactcga 819

<210> 475  
 <211> 1414  
 <212> DNA  
 <213> Homo sapiens

<400> 475  
 ggcacgagcc ttgagctagc atttcattat gaccgtgatt tttccccgca ccactttcca 60  
 gccttgtggt ccacaattcc actgggcctt aagtatgtac tgaacttcc tgcctccctc 120  
 attttgcctc gcttgtgcaa ttttttccac cctccatctc tgtcaaactg aagccttcct 180  
 gacctctaag acctaccttt gtcattgtacc tttaccctca ggcaaggagc aatctcttct 240  
 cttcctcttc taccttgcct tagcttctcc ccaaggattt atcacattct gccttgaatc 300  
 atagggaaca gcatgtgtag ttgaatgaac acaggcctct gaatccaaga tacgagttaa 360  
 aatcccagct ttggagggtg ttacttaaaag tctcagtgcc ttcattcttc ttcctatata 420  
 aagtagatat tacaatatct aacttacaga gtcattggga gctatacatg cagcgattgg 480  
 gtaaaagcacc tggcacatgg caagcgatta gcaaatgctggttacttcta cttctttctc 540  
 ttcccttttc ccagtcctatc ataatttcct tgagagcagg caccatgtct tatttaccct 600  
 tgtatttccc acagtacttc ccatagttag ttacccttag taaatactca gtaagttgaa 660  
 ttgaatttaa attacctgta agtcttaaaa tgtgggatta aattaagaat atattgtcct 720  
 ggaaatacc aagtgtctat tgatggatga atggataaac aaaatgtggt atacacataa 780  
 ttgaatatta ttcagcctta aaaaggaatg aaattctgac atgtgctaca atatgatgaa 840  
 cctggaagac attatatgtg aaataagcca gacagaaaag gacaaatgct gtatgattcc 900  
 acttatgtga agtacctaga gtagtgaat tcatgaaac agaaagtaca ggttgacatc 960  
 caaaatctga aatgagaaat gctccaaaaa ctgaaacttt ttcaatgccg acacgatgct 1020  
 caaagaaaaat gctaattgga gcatttcaga ttttggattt ttggatttgg gatgctcaac 1080  
 tggcataatg tgaatattcc aaactctgaa aaaactctgaa gtctaaaaca cttctgggtc 1140  
 caaggatttt ggataaagga tactcaatgt gcaacatgta gaatgggtgg tgcaagggtg 1200  
 gaggagagaa tggagagtta ctgtttaatg atacaatgtt tccgtttggg aagatggaaa 1260  
 gttttggaga tgtgtgatgg ttatggttgc gcaacaatgg gaaggtactt agtactgctt 1320  
 aactgtgcac acttaaaaaa ggtaaaaatg ataaattttg tgtatgtctt aaaacaataa 1380  
 aagaagtttt ttaaaaaaaa aaaaaaaaaa aaaa 1414

<210> 476  
 <211> 1340  
 <212> DNA  
 <213> Homo sapiens

<400> 476  
 ggcacgagaa agaaaaggcga gagaaaaatc aaggcaccaa atttagattg gaggtctcag 60  
 aggagcagtg ttttccctcc ttcgtaacag ttgaacaact tccagatgta gctagctgca 120  
 cccctgttaa agatgcaggc tctttacaat gaagacacat cttctgatgt tcttctctc 180  
 ctgtatggcc agatgcacag gaatagtgcc caaaagacct cagcctgctt tccctttaag 240  
 gggaaaggaga agaaaaaact cctttttat tttactttct ttcagcattg aatttttggt 300  
 gtgtgtatgg tgacttctgt ttttgggaaa cggaagaagc cagcagcatg ctgaattgtc 360  
 ctgacaggct tccgctggct cttgccgagg ttagcagtgc tttttttgta tttaaaccat 420  
 ctcccgggca gtgtaaaaag tttgcagggt cggacattct gtctgactgg tctcggcagt 480  
 gctctataac cctgttgtgt ttcttgataa aacacagccc caccctttaa taaagcaaag 540  
 attgctatga aaccagagag tctattcatt actgtggagt aactagagca gtctgtagt 600  
 actagacata cggcaattag gaagtcattg agttgggatt tttgtcttaa ttttggctgc 660  
 tcaaagtgc cctgttagga tatcttttt tgggaattg tttccaaact tgcctgtctt 720  
 tatctatggt gaaactcaag ccgcttttta aggcagcct gcaaacccea gtatcaacat 780  
 gggctcctga aggcacaggg agcagattca cagtcttgac cagtgttagg gtccccacga 840  
 gggccaccca tttgaactca aggttggcag actctggccc cagcacttgc cgtgtttca 900  
 ggatggccag cggtgacaca gggctatgga accctgggtc ttcattctct cccatatact 960  
 ttgtttcacc ttctttttgc ccatatttta ttgtgcttca gatagaaatt ttatttataa 1020  
 gataaaaagt agctctgagg ctgggcacgg tggctcatgc ctgtggctcc agcactttgg 1080  
 gaggccgagg tgggtggtc acgagctcag cagatcaaga ccatcctggc caatatggtg 1140  
 aaaccctgtc tctgctaaaa atacaaaaat tggctgggag tgggtggcgg tgctgtagt 1200

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| cccagctact | cgggaggctg | aggcgggaga | atcgattgga | cccaggaggc | ggaggttgca  | 1260 |
| gtgagcctag | atggcaccac | tgcgctccag | cctgggtgac | agagggaga  | tgccctcaaaa | 1320 |
| aaaaaaaaaa | aaaaaaaaaa |            |            |            |             | 1340 |

<210> 477  
 <211> 1676  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| <400> 477   |            |             |             |             |             |      |
| ggcacgaggg  | gacttcagaa | ccacagaact  | gagatgataa  | atgagtgggtg | tttcaagttg  | 60   |
| ctaagtttgt  | ggtcatttgc | ttacagtaat  | tgtaaaactaa | tacacaagtg  | taagtttgtt  | 120  |
| ttcttaaaga  | agaaaaaaaa | ggggaaggag  | gtaagtgtta  | aaggatcaaa  | actctgacaa  | 180  |
| aaggctgggt  | gcagaacatg | acaggttgtt  | gcaactggaaa | ctattttgtca | tgcaagttta  | 240  |
| tgtaaaaata  | agtagctttt | gaggactttc  | atttttgggtc | ttgtaaaat   | gccatttaat  | 300  |
| attgtccmac  | tgataatact | ttttgcaaac  | agaaactggt  | aaaaccttta  | aagcaaatat  | 360  |
| tactgtagag  | aagaagtaat | gtgttatgaa  | actgtgagga  | tactaagaag  | gacccactt   | 420  |
| aagtttcttc  | agcataaata | aacttgagcg  | tttcgaccac  | tgttactgag  | aatgaaatta  | 480  |
| tttcttaatc  | acttttaaat | aggtaaaatt  | tacatacgat  | aaaatgcacc  | aatttttaaag | 540  |
| tatagtttaa  | tgagcttgca | cagatgtaaa  | tatctgttta  | acttctactt  | aatcaagata  | 600  |
| tagaatattt  | ccacaatgcc | aaaattgcca  | ttgacccctt  | tccccttctt  | tcacccaact  | 660  |
| gcagacccca  | ggtcaccacc | aacctactct  | tgctcaatat  | agtttaattg  | tgatgtgtct  | 720  |
| tttctagagt  | tttatgtcaa | tagaattgta  | cactatgcac  | tcttccatgc  | ctggctttct  | 780  |
| ttgctcagca  | graggtgttt | agattaattc  | agtagttcat  | ttctttctag  | taatgaatag  | 840  |
| gatcacatta  | tacattatac | cacagagtgt  | gcattccatta | ctttgtkgat  | tgatatttgg  | 900  |
| gtcattttcca | ggttttggct | attgtgaata  | aaactgcctt  | gactattcct  | gwacaagtct  | 960  |
| ttgtatttaag | gaacatacgt | tttattttct  | cttgaggaag  | ttcctagcaa  | taagattgct  | 1020 |
| gggtcatatg  | gtaggtatat | atttagcttt  | aaaagcaact  | aagtgtcttc  | caaagtgact  | 1080 |
| gtacaattta  | acattcctac | ctgaaatgta  | agagaatcc   | agttgtctcca | cattcttgtc  | 1140 |
| aaccttggt   | agcatcagtc | tctttaagaa  | ttctaattgga | tatgtaatat  | ggactatagg  | 1200 |
| tttaatttgc  | atttctctgt | tgactaatga  | tggtgcacaa  | cttttcatat  | gtctatcaac  | 1260 |
| cattcttgca  | tcttctttta | tgaaatgtct  | gttcaaataca | tttgtccact  | ttttattgtg  | 1320 |
| tcatttttatt | cagttgtaag | agttctttac  | atattctgga  | aacaagtcct  | ctgtcacata  | 1380 |
| tataggtact  | ttgaaaatct | gtgctttgcc  | tttacatttt  | tttaattgga  | actttttaag  | 1440 |
| agtagatagt  | tttggttttg | atgaaattca  | acttatcagt  | ttttcagtta  | tagtatgtat  | 1500 |
| ttttatgacc  | catctaagaa | gcattctgtct | cccagagtt   | gcaaagatat  | cccttttctt  | 1560 |
| actagaaata  | ttatagtttt | atttaccatt  | gcttctatga  | tacattttta  | gttaattttt  | 1620 |
| gtgtattaaa  | tgaataaaaa | gttgaagttc  | aaaaaaaaaa  | aaaaaaaaact | cgtagg      | 1676 |

<210> 478  
 <211> 1747  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| <400> 478   |             |            |             |             |            |     |
| ccacgcgtcc  | ggctacctgt  | gcacgtgtgt | gtcctatgtg  | ctgctgtctca | tcttctggat | 60  |
| cgcgccggcc  | catgggccca  | ccaacatcat | ggtctacatc  | agcatctgct  | ccttgctggg | 120 |
| cagttttcacc | gtgccttcca  | ccaagggcat | cgggctggcg  | gccaagaca   | tcttgcataa | 180 |
| caacccgtcc  | agtcagagag  | ccctctgeet | gtgcctggta  | ctcctggccg  | tgctcggctg | 240 |
| cagcatcatc  | gtccagttca  | ggtacatcaa | caaggcgtcg  | gagtgtctcg  | actcctcggg | 300 |
| gttcggggcc  | atctactacg  | tcgtgtttac | cacgttggtc  | ctgctggcct  | cagccatcct | 360 |
| cttccgggag  | tggagcaacg  | tgggcctggg | ggacttcttg  | gggatggcct  | gtggattcac | 420 |
| gaccgtctcc  | gtggggattg  | tccttataca | ggtgttcaaa  | gagttcaatt  | tcaaccttgg | 480 |
| ggagatgaac  | aaatctaata  | tgaaaacaga | ctagattgca  | ataggagctt  | ggatggttcg | 540 |
| aggaataggc  | attggagggtg | gtttctggcc | gtgattggat  | gtgaagtaga  | agaggtcctc | 600 |
| gatcatgggtg | ttagaattga  | ctggatagta | acaggtgggtc | tggtggatag  | cggggagcat | 660 |
| ggctcagcac  | cagagcagag  | gcccagcagc | ctctgcagcc  | caaacgtccc  | aacggtgcct | 720 |

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| ggaccatctc  | ttctgatgag | acgaatctca  | ttttcatttc | cattaacctg  | gaagctttca  | 780  |
| tgaatatttc  | ttctttaaaa | cattttaaca  | ttattttaac | agaaaaagat  | gggcttttc   | 840  |
| tgggtaggtg  | gtacatgata | gcagagatat  | ttttacttag | attactttgg  | gaatgagaga  | 900  |
| ttgtgtcttg  | aactctgcac | tgtacaggat  | gtgtctgtag | ttgtgttagt  | ttgcattaag  | 960  |
| catgtataca  | ttcaagtatg | tcatccaaat  | aagaggcata | tcattgaatt  | gtttttaatc  | 1020 |
| ctctgacaag  | ttgactcttc | gacccccacc  | cccacccaag | acattttaat  | agtaaataga  | 1080 |
| gagagagaga  | agagttaatg | aacatgaggt  | agtgttccac | tggcaggatg  | acttttcaat  | 1140 |
| agctcaaatc  | aatttcagtg | cctttatcac  | ttgaattatt | aacttaattt  | gactcttaat  | 1200 |
| gtgtatatgt  | tcttagatta | gaataatgca  | acttcgagta | tgctttaatat | ttcaatatt   | 1260 |
| caagttacaa  | atgtataagg | cagttagaaa  | taatacagtc | acatgtcact  | taatgatagg  | 1320 |
| gaaacattct  | gagaaatgca | ttgtaagggtg | actttattgt | gtgaacatca  | tggagtgcac  | 1380 |
| ttatacaaac  | ctagatggga | cacctatgac  | ccaccaggc  | cagatggtac  | agcctgttgc  | 1440 |
| tcttgggcca  | cacacctgta | cagcatgtga  | ctgcactgaa | taccgcaggc  | aattgtaaca  | 1500 |
| cagtgggtgag | tatttgtggt | tacaaacata  | ggaaaggtag | agtaaaacta  | tggattataca | 1560 |
| atgttatggg  | accaccgtca | tgtaatgtgt  | atgtctttga | cagaaacatg  | gttacgtggt  | 1620 |
| tcatgactgt  | atattcactg | gaagatagtc  | aagactaaag | acacataaga  | gcaaatgac   | 1680 |
| ccctttaaca  | tgtgattatt | gtccaattaa  | agacagttga | tttaagtagc  | aaaaaaaaaa  | 1740 |
| aaaaaaa     |            |             |            |             |             | 1747 |

<210> 479  
 <211> 1251  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gaccacgcg   | tcagagcaaa  | cccaggaagg  | tgtggcgctc  | ccgcttcgcg  | ccaagatggt  | 60   |
| gctggtgctg  | cgccatcctt  | tgtgtgcccg  | ggaaagggcg  | ttccggggagc | cgggtcgggg  | 120  |
| gctcctgact  | cgcaactgggc | agcatgacgg  | tgcgcgggct  | gtcactgctg  | tgccggggacc | 180  |
| tctgggcgct  | gtggctgctg  | ctgaaggccg  | gcgcagtagc  | tgggcgcgg   | gcaggtcctc  | 240  |
| gcctcccgg   | aagtggttgt  | ggggcgacat  | gcggggacgc  | cgggcggggg  | tggacgttct  | 300  |
| gggcccagcc  | ctgtcctcag  | aggctgctgg  | ggcagaagcc  | cggggctggg  | ggatgccggg  | 360  |
| gatgggtggt  | gggggtgggtg | cctccgagac  | cagaggagcc  | ctgttccttg  | gcagggaagg  | 420  |
| tgtgcacggg  | ccttgcccga  | tggatggttt  | agggccatgg  | ccctgggggtc | cctggtgagc  | 480  |
| agtggggccg  | cctctgccc   | tggcctgtga  | gggactgtct  | gtgctgggtcc | cagaaggctg  | 540  |
| ggatcacctt  | tccactggct  | cctttgttcg  | aggtttttca  | tagacaggct  | atgtggacaa  | 600  |
| atgagggcag  | cgcccacgtc  | tggctgggtg  | aggggctgg   | gctcctcctt  | ggaggggagc  | 660  |
| cctggccact  | gctgtcccca  | caatgggggc  | acccgtgggtg | caaggcgtga  | caagctgccc  | 720  |
| tctctaggta  | agcaggactt  | gggaggcccc  | tggccaaggc  | tgtggaccgg  | gctgggacgg  | 780  |
| ctctgtgggtc | tcagggtttg  | gtgtgttttg  | tctggtcagg  | gctcaggggc  | tgctgggtcca | 840  |
| cactggcccc  | atcctgacaa  | ttggagcttt  | ggggcaagg   | ccctggagaa  | ggggtcacgt  | 900  |
| cgggaggaaa  | cagcctgggt  | tttgttgatg  | cttttctaag  | aatggagtac  | tcgttttcaa  | 960  |
| gagatttgct  | ctaattatat  | ttccagcgg   | gtacttatgc  | caagtattga  | tgaataattc  | 1020 |
| ataaaaataag | catctttgtg  | aatttttagtg | aatagacct   | taactatcaa  | cggcaatgaa  | 1080 |
| tgaacatcta  | aagttttccaa | ttttaaaagta | aagaactggc  | tgggtacagc  | agttcacgcc  | 1140 |
| tgtaatccca  | gcactttggg  | aggccaaggc  | tagaggatcg  | cttgagccca  | ggagtttgag  | 1200 |
| atcagcctgg  | gcaacatacc  | aagacctcat  | ctgttaaaaa  | aaaaaaaaaa  | a           | 1260 |

<210> 480  
 <211> 1539  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cgatggcccc  | gcggccgctc | tagaaagtcc | cgtttttttt | tttttttttt | tttttttttt | 60  |
| tttttagagta | cgttctgcat | tttatttytg | caggcaacac | tttgctcacc | agcaagaaca | 120 |
| cagcccragg  | aagggaacca | ataacctttc | amaacscaaa | ctgctkcctg | cggtgagggc | 180 |
| ccagggtcct  | ccacggagag | gacaggcatc | ttcctttccc | accaggaagg | agtcagcccc | 240 |



|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| gagcctctgc | tatgtgcaag  | gcggtgtgca | agcaccggct  | gcrgctyttt  | gctgtctctt | 300  |
| ctttctcttt | ggggctgggc  | tgggtgtgcg | ttctgggtgct | gatgctttgg  | cctgtgaggc | 360  |
| tgagcttggc | acctcgaccc  | gttcaattac | agcaacgaag  | aagccactgc  | tgagtgtggt | 420  |
| ctcaggggag | gcccggaggc  | agtgtctcgg | acccgggaac  | gtgctcaggc  | ctcgggtggg | 480  |
| ccaggcaggc | agggcgggag  | ctagcctgaa | ggcgcccggg  | ttctgtctgca | gcgcatctcg | 540  |
| caccacgtct | tcattctcct  | cctggcagag | ggagcacgtg  | gagtagacga  | gccgctgcag | 600  |
| ggaagggaaa | gtgagcgcg   | ggcacagggc | tcgctgctgg  | aaccctgcc   | gggcatgcag | 660  |
| acgcaccggg | ctaggtgtgc  | ctgccccggg | ctcctccagc  | tgtctgctcg  | gcatacccga | 720  |
| gccactgcag | gaaggatcca  | gcaggayrta | gtggacctca  | ygrtagcggy  | gatcyragg  | 780  |
| ggagaccgcc | aggaagtcc   | cctcagccag | ytcacagcar  | gagacgccag  | cccrggccag | 840  |
| cagcgtggcc | atggatgcc   | gccgcttggc | atccagggtca | aaggcaaaga  | tcttcccttg | 900  |
| gttcttcaga | agagcagcca  | agtgactggt | cttattgcct  | ggggcggcac  | aggcatcgat | 960  |
| gacatgggag | cctggcgggg  | gtccagcag  | catggctggg  | agacagctgg  | ccctgtcctg | 1020 |
| cagaatgagg | tgtccggccc  | ggtacagtgg | gtgttcatgc  | agatctgtct  | gggcgggaaa | 1080 |
| caccagcagc | tccggcatca  | aggggtccag | gagaaaatgc  | ttccccttga  | gggctcgtaa | 1140 |
| gtcatcgag  | ctggaagccc  | gaccctgata | ggagaaaacct | tgtctcttga  | abaaatcaac | 1200 |
| tacatcatcg | gagcaggtct  | tgagagtgtt | cacacgcaca  | aatcgaggga  | gctgggaggc | 1260 |
| tggaccaggc | ctggatccca  | cttccaacag | gtcctcattc  | cggctcacac  | cccgatgaac | 1320 |
| cttgagccga | gccaaactcag | ccttgagcct | cgcttgggtg  | cggcccaaca  | gagccttcca | 1380 |
| tcggccccc  | ccccctcgaa  | agccctttcc | caacaacaac  | tcatacacta  | gcaccttggc | 1440 |
| caggtgcggc | cgctctagag  | gatccctcga | ggggcccaag  | cttacgcgtg  | catgcgacgt | 1500 |
| catagctctc | tccttagagt  | gagtcgaatg | aggttcata   |             |            | 1539 |

<210> 481  
 <211> 1941  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |      |
|------------|-------------|------------|------------|------------|-------------|------|
| <400> 481  |             |            |            |            |             |      |
| tcgaccacag | cgtccggggc  | gttcctgggc | gtgagagggg | agccccaggg | gagctggggc  | 60   |
| agcatgactg | gggtgataaa  | tggccggaaa | tttggcggtg | ccacactcaa | caccagcgtg  | 120  |
| atgcaggagg | cacactccgg  | ggtcagcagc | atccacagca | gcatccgcca | tgtcccagca  | 180  |
| aacgtggggc | ctctgatgcg  | ggtgctcgtg | gtcaccatcg | cccccatcta | ctggggccctg | 240  |
| gccagagaga | gtgggggaagc | cctgaatggc | cactctctga | ctgggggcag | gttccggcag  | 300  |
| gagtcacacg | tggagtttgc  | tacaggggag | ctgctcaoga | tgacccagg  | ggcccgggg   | 360  |
| ctggatcccg | atggcctcct  | gctcctcgac | gtgggtgtca | atggcgtgt  | ccccgagagc  | 420  |
| ctggctgacg | catgctttca  | agtgcaggag | tttgaggagc | actacgtgca | aacaggccct  | 480  |
| ggccagctgt | tcgtgggctc  | cacacagcgc | ttcttccagg | gcggcctccc | ctcgttccta  | 540  |
| cgctgcaacc | acagcatcca  | gtacaacgcg | gcccggggcc | cccagcccca | gctggtgcag  | 600  |
| cacctgcggg | cctcagctat  | cagctcggcc | tttgatccag | aggccgaggc | cctgcgcttc  | 660  |
| cagctcgcta | cagccctgca  | ggcggaggag | aacgaggtcg | gctgccccga | gggctttgag  | 720  |
| ctggactccc | agggagcgtt  | ttgtgtggat | gtggacgagt | gtgcgtggga | tgtcacctc   | 780  |
| tgccgagagg | gacagcgctg  | tgtgaacctg | ctcgggtcct | accgctgcct | ccccgactgt  | 840  |
| gggcttggt  | tccgggtggc  | tgatggggcc | ggctgtgaag | atgtggacga | atgcctggag  | 900  |
| gggttgacg  | actgtcacta  | caaccagctc | tgcgagaaca | ccccaggcgg | tcaccgctgc  | 960  |
| agctgcccc  | ggggttaccg  | gatgcagggc | cccagcctgc | cctgcctaga | tgtcaatgag  | 1020 |
| tgctgcagc  | tgcccaaggc  | ctgcgcctac | cagtgccaca | acctccaggg | cagctaccgc  | 1080 |
| tgctgtgcc  | ccccaggcca  | gacctcctt  | cgcgacggca | aggcctgcac | ctcactggag  | 1140 |
| cggaatggac | aaaatgtgac  | caccgtcagc | caccgaggcc | ctctattgcc | ctggctgcgg  | 1200 |
| ccctgggcct | cgatccccgg  | tacctcctac | cacgctggg  | tctctctccg | tccgggtccc  | 1260 |
| atggccctga | gcagtgtggg  | cgggctctgg | tgcctcctg  | gtttcatcag | gcagaacgga  | 1320 |
| gtctgcacag | accttgacga  | gtgcgcgctg | aggaacctgt | gtcagcacgc | ctgccgcaac  | 1380 |
| actgagggca | gctaccagtg  | cctgtgcccc | gccggctacc | gtctgctccc | cagcgggaag  | 1440 |
| aactgccagg | acatcaacga  | gtgcgaggag | gagagcatcg | agtgtggacc | cggccagatg  | 1500 |
| tgcttcaaca | cccgtggcag  | ctaccagtg  | gtggacacac | cctgtcctgc | cacctaccgg  | 1560 |
| cagggcccca | gccctgggac  | gtgcttccgg | cgctgctcgc | aggactgcgg | cacgggcggc  | 1620 |
| ccttctacgc | tgcagtaccg  | gctgctgccc | ctgcccctgg | gcgtgcgcgc | ccaccacgac  | 1680 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gtggcccgcc | tcaccgcctt | ctccgaggtc | ggcgtccccg | ccaaccgcac | cgagctcagc | 1740 |
| atgctggagc | cgcacccccg | cagccccctt | gcgctgcgtc | cgctgcgcgc | gggccttggc | 1800 |
| gcggtctaca | cccgctgcgc | gctcaccgcg | gccggcctct | accggctcac | cgctgcgtgt | 1860 |
| gcggcaccgc | gccaccaaag | cgtcttcgtc | ttgctcatcg | ccgtgtcccc | ctacccttac | 1920 |
| taaacgggag | agggcattgg | c          |            |            |            | 1941 |

<210> 482  
 <211> 1510  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (426)..(426)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (454)..(454)  
 <223> n equals a,t,g, or c

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| cacgagaaac | attctatctt  | ttatcaaagt  | tgtgattcat | aacttttggg | taccaaagga  | 60   |
| atctaacgaa | ataaccataa  | tcataaatcc  | atacaggagg | actgtgtgct | tcttgttggg  | 120  |
| gcctgtcaag | aagatatatta | actatatgat  | acatgtgaat | cgaaacatca | tggatttcaa  | 180  |
| actcttcctt | gtgtttgtgg  | caggagtttt  | tcttttcttt | tatgcaagga | ccctggagtc  | 240  |
| aaagccctac | tttctattac  | tcctcgggaa  | ctgtgctagg | tgttctaata | acatagtctt  | 300  |
| tgtcttgctg | ttggtgaaa   | gattcatccg  | aagtatagca | ccttttgggg | ctctaattgt  | 360  |
| tggttggttg | tttgccctcag | tttatattgt  | atgccagttg | atggaagatc | tgaagtggct  | 420  |
| gtggtntgaa | aacaggatat  | atgtatcagg  | ctangtcttg | atagtggat  | tttccagctt  | 480  |
| tgttgtttgt | tacaagcatg  | ggcccccttg  | acacgacagg | agcagaagt  | ttctgatgtg  | 540  |
| gatgctgcga | ctcctctccc  | tggttcttgt  | ctatgctggg | gtggctgtgc | ctcagtttgc  | 600  |
| ctatgcagcc | ataatcctcc  | tcatgtcctc  | ctggagtctg | cactaccac  | tgagagcatg  | 660  |
| cagttatatg | aggtggaaaa  | tggagcagtg  | gtttacatca | aaagagctgg | tggtgaaata  | 720  |
| tcttacggaa | gacgagtaca  | gggagcaagc  | tgatgctgaa | acgaacagtg | ctctggagga  | 780  |
| gctacgccgg | gcctgccgaa  | aacccgactt  | tccctcatgg | ctggtcgtct | ccagactcca  | 840  |
| cactccttag | aaatttgcag  | attttgttct  | tggaggaagc | cactgttcac | ctgaagaaat  | 900  |
| cagtctgcat | gaagagcagt  | atggccttgg  | gggtgccttc | ttgaagagc  | agctctttaa  | 960  |
| cccaggtact | gcctgacatg  | cgaccttcaa  | gttgacttca | ttctggacaa | ggaagtgggc  | 1020 |
| aaagggcagg | attctattaa  | agttaggcag  | aactgttcta | gtgaacggtg | gcaaaaacat  | 1080 |
| ttgctgtgga | gaaaaacaag  | tcagtctgga  | aaggaaaacc | aacccatttt | gaagataact  | 1140 |
| tagcattctt | ggtgacttct  | gctacttatt  | gtactgtagg | tggataccaa | aattctgtga  | 1200 |
| cagccactac | cacttacctt  | gaatgaaggc  | tttcattagg | aacaggggaa | tggcgttgtt  | 1260 |
| cttaaggggc | tagtaagcat  | gaacaggtgc  | tttgtcgaca | ccagggcact | aatctgggtc  | 1320 |
| ttaatcccct | gaacctgtgt  | cagaagactc  | tgcaataac  | ttcctatagt | tcgtcagtat  | 1380 |
| aagtccttaa | agagacctga  | gacatgctgg  | accagtgttt | tccaaagtac | agctcacagg  | 1440 |
| ctactaccaa | gtgttggtca  | ataaagggtat | tctgaggtca | actaagattg | ataaaaaaaaa | 1500 |
| aaaaaaaaaa |             |             |            |            |             | 1510 |

<210> 483  
 <211> 805  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgaggt | ccctaattgt | cttgtaccta | gccctagggg | gaccagggca | ggggaatcat | 60  |
| ggcgagaagc | gtaagggcct | gatgaagaag | gtgtgctggg | tgtgggctct | agcccacttg | 120 |

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| gttttgtgtg  | agaggtggct | gacagcaggt  | tgtttgcgt  | atgtaggagt  | tatccagccc | 180 |
| tgcaagggca  | gtccctccag | tgtctgcaaa  | gcccgaaagt | gtctgcatcc  | aaaatacaga | 240 |
| ataaaaaagat | atggttacta | caagtactca  | gtaagactga | taatctgtca  | tcatcatcct | 300 |
| catgccctta  | aagcagagct | aactgatgat  | taatatatgc | ttctatgtta  | acagtcttgg | 360 |
| actttattaa  | tggtgggtgg | aagttaactt  | aatgtatgta | tgcaaaactaa | aaagtggcat | 420 |
| ccttttcatt  | aatgacccaa | ccattattca  | agagctatgt | ctagttaggg  | acttcagact | 480 |
| tttgaaagaa  | atgaagaaat | aatgccagat  | acatgggctc | gcacttggaa  | tcccagctac | 540 |
| ttgggggacc  | gaggtgggag | gaccgcttga  | gccaggagt  | tcgagaccag  | cctgggcaac | 600 |
| atagcgaaac  | cctgcctcag | ttttaaaaaa  | gaaaaaaaga | agtagtgaag  | aaattggaaa | 660 |
| ggattctgag  | aagaaatatg | caaggtggaa  | aagagcctag | aaagaaaggt  | gacagatgct | 720 |
| gggatttggg  | cgtcagaaga | gatattctagg | aaatagcatg | gcagccctca  | agtactagct | 780 |
| ccacttaaaa  | aaaaaaaaaa | aaaaa       |            |             |            | 805 |

<210> 484  
 <211> 1182  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 484   |             |
| ggcacgagcc  | cccagcacat  |
| ttcaaatcct  | tcttaagtga  |
| cagtatgagt  | tgctttcaaa  |
| cctggatcag  | ggaagactat  |
| cactgtgaac  | cggtctaacat |
| agtttcagca  | agaaaaacat  |
| tttgaacaca  | tccagcacat  |
| gactgggatg  | ggaaagcaaa  |
| tggatctttc  | tggaactact  |
| cagaccagta  | tccaagagaa  |
| attacctcaa  | caagtaaatg  |
| tccctgggtga | tgctctatga  |
| attgaagact  | tgaacttgga  |
| ttgcggaatg  | gttattctcc  |
| gaaaaatata  | aagacaggct  |
| gaggagtctg  | atctgttact  |
| gtgttggaca  | tgtctgtcag  |
| ccaggagtag  | ccccaccggc  |
| aaaagacatc  | tgtatatctt  |
| attaagtggg  | tctcatctct  |
| ggaagccctg  | ttacagtcct  |
| agagctgggc  | ctgaggttt   |
| gaaccttcgc  | aagaccagag  |
| ccttggtcct  | aggatcatgg  |
| tctctacatc  | tgtgaaaacc  |
| gtgacccgga  | aaaccttcat  |
| gacgctcaga  | atttccgtac  |
| cagacagcaa  | gggatggccc  |
| cacttgagtt  | gcagtgcctc  |
| gagtgggtccg | caatgcagg   |
| caaaatcctc  | cacctaacct  |
| gctcaagggtg | tcccaggcaa  |
| atctatgtag  | cgaataaatg  |
| gctgtgcttt  | tcaccaaagc  |
| atgaggaaga  | gaaaactgtc  |
| ctggaaagaa  | atgttctaac  |
| atctcggtcg  | tggaatcaat  |
| aatcttctgc  | tctgtttggc  |
| gtgtgacagg  | aaacccaagc  |
| aaaaaaaaaa  | aaaaaaaaaa  |
| aa          |             |

<210> 485  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 485   |            |
| agaactagtg  | atcccccggg |
| ctgggaacca  | taggctatac |
| ttgcttttcag | aaagacagct |
| ggtgctaatt  | aataatttaa |
| tttatgatta  | tctcatccat |
| tgccagaatc  | tgctactggg |
| gtcttagaag  | gtctcctgaa |
| tggttttctg  | caatctctca |
| cctatcagct  | gtgggcatct |
| tgcagtgcct  | gcgcctgtaa |
| ctgcaggaat  | tcccaacact |
| gagcatcgat  | tgggagggct |
| aaactatttt  | cctgttatct |
| ggtgccggtc  | tcaaggttga |
| tttttttga   | gagacagaga |
| atcttgttgc  | ctcagccagg |
| agtttgtgga  | gatcactcga |
| gtgttgggca  |            |
| tagagtgtgt  |            |
| tctgctgtc   |            |
| gggaccagg   |            |
| aaatggcatg  |            |
| cactgggaga  |            |
| gggaggggct  |            |
| aggaatgggt  |            |
| atcaagaagt  |            |
| gaggtaggta  |            |

<210> 486  
 <211> 777  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (274)..(274)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (278)..(278)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (295)..(295)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (676)..(676)  
 <223> n equals a,t,g, or c

<400> 486  
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 aaacctaact tagatgaaaa tccttatctt gttcattttt attcctggcc ttttggttga 120  
 gaagaatggg ccagaccatg tgtgtgtgtg tatgtgtgtg cgtgtgtgtg tgtgtgcgca 180  
 ctggggttta tttatatgag ccggtaaaaa ttcgctcacc attaatattat gttaatattac 240  
 caacttctta aatgagaaca gtgagaattt tctncatngt taataataca ctggncagtg 300  
 catatatgca tcacgaagag aggatatttcc cattgataat agattttcaa atacatcttc 360  
 ctgctttaag attttaatat atggatttat atataaaaac tagttaagtc attggaaaag 420  
 caaactgtca wccttctctt atttgagawc tcaactttag aaagtctatg ttctcaacta 480  
 cagaaaataa ttttttagacc agctaacttt cagatttctg cagtgcctat tttctcccag 540  
 ttgagggttg gtttttggtt gtttggttgt ttggttggtt ttcttgatta aaaagtaaga 600  
 atacggccag gcgcgatagc tcatgccttt aatcccagca ttttgggagg ccgaggaggg 660  
 cagatcacct gaggtncagg agttcgagac cagcctggct aacatggtga aaccagttt 720  
 ctactaaaaa aaaaaaaaaa aaacttcgag ggggggtccc ggtacctaatt cgtccct 777

<210> 487  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<400> 487  
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 caccagaggc cacctgtatt ccctatccca caaccctagc cccttcctct atctttgaag 120  
 tggactatct catcccctgt ttctatcatg acagtgcctt ctctcatatt gaccctcttg 180  
 ccttataaga ttcccttgta ttacactgga tccacctgca taatcaaggc taatctctcc 240  
 atctggagat cttaataataa tcacatctac aaagtccctt tggccattga agtaacatat 300  
 ttatatgtat tcattattag gatgtgggac acttttgtca gggacaggga tttttcagcc 360  
 tacctttttc ttcaaccttt gccaccactc tcagcctgtg gtctcaattg ccagccttta 420  
 cacttgctac cccattgtct gggtagtcca taccagtcct caagactagc cttaggcattg 480  
 cctcttctgg gaatacatcc tcttacaggc caggatatga ctcatgggtg catcctaata 540  
 gcacttcact tatttctact gtcaccacac tgatctgtaa ttacttgatt tgtctgactc 600  
 ttctgggggc ttgtaagcat tctggcacag agaactatga cttactgggg cttacatctc 660

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| ttgctaaaca | cagtacctaa | aatttagtag | gcattccctc  | ataaacatga | atgaatgaat | 720  |
| caaagaatga | ataaacattt | aggaaatgat | gttggtgttg  | tcaacttctt | tcctcatcac | 780  |
| tgttaaagat | aaaagaatgc | caagccaggt | tggtcagaca  | gaagcaagca | ccatccct   | 840  |
| gagagagcag | cacatctggg | cagccatgtg | tgagaagtcg  | gttgcatcct | ccatacacag | 900  |
| ttgtctttgc | agctgtactc | ttaaccactg | taaccacaga  | agtggggaaa | caatagggtg | 960  |
| gggtgaagtg | aaaagaaaat | tttccaaaac | ttcattttatc | taataaatac | agatatttta | 1020 |
| aaaaaaaaaa | aaaaaac    |            |             |            |            | 1037 |

<210> 488  
 <211> 727  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 488  |             |            |            |            |             |     |
| gaattcggca | cgagaggggtt | ttagtttatg | tctctaactt | tagcaaagct | gcatttcctat | 60  |
| tggaatgcat | actggaaaca  | gctctcattc | ctaccttta  | agggctcttg | gaagcagtg   | 120 |
| tgacaaccaa | ggctactaaa  | tggtgagatc | atcaagccat | tttaagttct | ttctcatggt  | 180 |
| attcaccagc | accctgcagg  | acgttgggca | cacatcacat | ccctcagctc | agccatccag  | 240 |
| ccgtctcagt | gattcaccac  | tcatttgctt | aattaataga | caggtttgat | cactttgtac  | 300 |
| atggaaggca | ctgtgccagt  | gaacaagcag | ttggacccag | ccctccagta | gggaatggac  | 360 |
| agctgaaaa  | ccatgagcaa  | gaaagaagga | aaaagaaaga | gttctgagca | gccaaccat   | 420 |
| ttctcgatga | tttcagagcc  | ttcattctga | gcatcagtta | tatgctctcc | agtgtaatga  | 480 |
| ctttatagcc | aagcacagta  | attgatatta | ctgtgaaggc | ccttaacta  | tcaagaaatg  | 540 |
| gttgaggccg | ggcacatttg  | ctcatgccta | taatcccagc | acgtgggagg | ccgaggcagg  | 600 |
| cagatcactt | aagcccagga  | gttcaagccc | agcctgggca | acatgatgaa | agcccattctc | 660 |
| tacaaaaaaa | aaaaaaaaaa  | actcgagggg | gggcccggta | cccaattcgc | cctatagtga  | 720 |
| gtcgtat    |             |            |            |            |             | 727 |

<210> 489  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (553)..(553)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (560)..(560)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (589)..(589)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 489  |            |            |            |            |            |     |
| gaattcggca | cgagcggcac | gagccgagat | cgttctgggg | ctgctggtat | ggacgcttat | 60  |
| tgctggaact | gagtacttcc | gggtccccgc | atttggtctg | gtcatgtttg | tagctgtatt | 120 |
| ttactgggtc | ctcaccgtst | tcttcctcat | tatctacata | acaatgacct | acaccaggat | 180 |
| tccccaggtg | ccctggacaa | cagtgggcct | gtgctttaac | ggcagtgcc  | tcgtcttgta | 240 |
| cctctctgcc | gctgtttag  | atgcattctc | cgtctccct  | gagaaggaca | gtcacaactt | 300 |
| caacagctgg | gcggcctcat | cgttctttgc | cttcgggtc  | accatctgct | acgctggaaa | 360 |
| tacatatttc | agttttawag | catggagawc | caggaccata | cagtgattta | ccattttgat | 420 |
| aattaaag   | aaaaaaaaag | gaagactctc | actgtaaaaa | cagctgtagg | tataatgtat | 480 |

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| attcccagag | aattgtatatt | aactaattaa | tgtttttttat | attcttaaat | ttgctcacaa | 540 |
| attgtggttt | gtnacaattn  | aactgggtta | ctttattttg  | caagtgttnt | aggcttttaa | 600 |

<210> 490  
 <211> 1242  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (288)..(288)  
 <223> n equals a,t,g, or c

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| <400> 490   |            |            |             |            |             |      |
| ttcgtatcca  | ctaggatggc | tctaataaat | acaaagtat   | tgtcaaggat | gtagaaaaat  | 60   |
| tggagccctc  | ctgccttggg | gggagtgtaa | tatgggtgcca | gatacaacct | ccatcctgaa  | 120  |
| gctcatctgt  | atgcttcctg | tttgtgtttt | taaactttta  | ctatatcttt | atgtcctcat  | 180  |
| aagaatatgt  | actatcattt | ggtgttttaa | agtgtacata  | aatgctgtca | tcctgaacaa  | 240  |
| atcctctcgc  | taactgcata | tttaactcta | tactatattt  | tcaagatntg | tccatgttga  | 300  |
| tccacgtagc  | tccctagtgc | cctttaactg | ctataagata  | ttctgttgcg | tcaatatatg  | 360  |
| acaattttatg | catgctttgt | tgacaggtaa | ttggattttt  | agtgttttgc | ctttacaaaa  | 420  |
| atcactgcac  | cttttgcaca | tgtctatttg | tgcataatgaa | ctgaggtaaa | attgctgggc  | 480  |
| cttactgtaa  | atatgttgtt | ttaattcact | ttgctgtgct  | gtaacagaat | accatagact  | 540  |
| gggtgcttat  | aaagaaaaga | aattttattt | tcatagttct  | ggagaatggg | aattccaaga  | 600  |
| tccattcaca  | ggttcggttg | tctggggaar | actttcttca  | cacatcctca | cttgggaaa   | 660  |
| cggaagggcc  | tgggttgatg | ctgtgtgaam | cctcttttat  | aagggcctta | gtctcattcc  | 720  |
| caaggaggag  | ctctcataac | ctaatacact | cttaaaggcc  | ccccactcaa | tactatgaca  | 780  |
| ttgaatttca  | acatctgaat | tttagagggg | acactgcaaa  | cctgtcatat | gtctttatct  | 840  |
| ttactatcac  | taaattgtcc | aaagtgtatt | caacagtgtat | ttatatactc | aaccacacaga | 900  |
| gtataagaat  | ttctcctttc | tagctgggca | cgggtggctca | cgccagtgtg | cccagcactc  | 960  |
| tgggaggccg  | agatgggccc | atcacttgag | gccagggtgt  | caagaccagc | ctggccaaca  | 1020 |
| cagtgaacc   | ccatctctgc | taaaaataga | aaaagttagc  | tagctatggg | gcgcacacc   | 1080 |
| tgtaatccta  | gctatttggt | gggctgaggg | aagagaattg  | cttggacctg | ggaggctgag  | 1140 |
| gtagcagtga  | actgagatcg | taccattgca | ctccagcctg  | ggtgacagag | cgagactctg  | 1200 |
| tctcagaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaactcg  | ta         |             | 1242 |

<210> 491  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| <400> 491  |             |            |             |            |             |     |
| ctcgtgccga | attcggcacg  | aggtgcccag | gctctcaggg  | cagagggtcc | agtgtgatca  | 60  |
| ctttgcatgg | cctctctccc  | ctcctgagct | tgtgccaggg  | ccccagggtc | gacctggaga  | 120 |
| ggaaaawggc | agaggggtgaa | gatgggggtg | ctgggtttgg  | gacctcctg  | gcccccttg   | 180 |
| tactgtttgg | catctcttct  | gcacagtggc | attgctggga  | ggtgcttact | gtgcctattc  | 240 |
| aaggggctgg | cagccgcagc  | ctcactgcag | atcagggtact | tggcttccc  | gttgaccaca  | 300 |
| ggtccaagaa | cctgcagggt  | ccagcctccc | ccccatcccc  | agtcttcccc | accctggccc  | 360 |
| ggcctccag  | gtgcagaaac  | atgcaggccc | ctctccagga  | ctgtgggagg | agtgtgtccc  | 420 |
| tcagactggc | ctgtgtcctg  | gctcctctta | ccacctcttc  | cagagggtgt | cacctgcagc  | 480 |
| tgccccagga | taaaggcaag  | gccagagagg | actcctgaac  | tcctgtgtgc | ctgggggtgg  | 540 |
| aggggcaaac | atagccaact  | ggtggcctga | gcggggccat  | ggtgagaca  | cccttggtgg  | 600 |
| cttgtccac  | atcaagctgg  | gargtgacac | tgaggatgca  | ttagtctgca | gcgtatgata  | 660 |
| aaaacggcat | ttcaggccag  | gcgtgggtgg | tcatgcctgt  | caccccagca | ccttgggagg  | 720 |
| ccgaggtggg | cagatcacat  | gaggtcagga | ctttgagacc  | agcctggcca | acatgggtgaa | 780 |
| aactcatctg | tactaaaaaa  | acaaaaatta | tgtgggttgg  | tgggtgtgtg | ctgtaatccc  | 840 |
| agctacttgg | gaggctgagg  | caggagaatc | acttgaacct  | gggaggcgga | ggctacaacg  | 900 |

agccgagatt gcaccactgc actccagcct gatccgtctc aaaaaaaaaa aaaaaaaaaa 960  
 aaaaactcga 970

<210> 492  
 <211> 1388  
 <212> DNA  
 <213> Homo sapiens

<400> 492  
 ggcacgaggt aagttgcaag gtacacccac ggggtgattta tcactcttac aaagatgata 60  
 actaatgaag accgcatcta gaatgctctt actggagatg gtttacagag catttttaaat 120  
 catcatactt agattttatat taatattttct tttcaaaacta aattattcca aactgtgccc 180  
 tgagatacca tttggcctca agttcttttc tttcgtctgt attaaggtgc aaataaaaaa 240  
 gactagtagg aaaagaaggc cttattttatg aaggttgtct atagctctga gcttggtagc 300  
 tacataaaat gagtaataac ctaaataagt aaaactaatgaagatctaac tagattactt 360  
 tgcttaatat taacatttta cccgcccccc gccgtgaaac atttggcaga tgttctgcag 420  
 gactcatgag gacattgggtg gctacagctg cttctggcac tgcccccca acccccagc 480  
 gaggtgaact tctttacaca tccagcaagc tttagttatc ttcttctccc atttgagata 540  
 actgtggcta caagaatctc agttaaatca gatgtttaaa ttaggtgcc aaaaatctta 600  
 cagacactga actaatactt aaatcaagga acacttcagt tctccataaa atctggtgcc 660  
 attttccaaa gaaacagagg atctttgttt cacaccctg gtactggaat tgcaacagtg 720  
 aggcattcta gctctcacat gccaatgcga gtgatttca tctttgctca ctcatctctg 780  
 cttctcattg tcacatttg aggcctcttg ggggtatgtt tcagttgatc tgagaaactg 840  
 ggtgttacca atttactaga gagtttctta aaatgtatct gaaacaaact attaatggc 900  
 attctgtggt ggtaaaacca ggcaacgcct ccctacacta tctgtccttt cagagctaag 960  
 aatctgttat tttgaattgt tcacgaagag tgattctgac tctgcttcag tgcacacttt 1020  
 acaaaccatc gagcctcatc aaaggagtga gttgagctga ggaattagag taaagaatac 1080  
 aggtatagtg ccgggctgtg tgctcacgcc tgtaatccca acattttggg aggacaagga 1140  
 ggggtgatca cctgaggtca ggagttcga accagcctga ccaacatgga gaaaccctgt 1200  
 ctttactaaa aatacaaaat tagctggacg tgggtgcaca tgcctgtgat cacagctact 1260  
 caggaggctg aggcaggaga atcgcttgaa ccaggaggc ggaggttgtg gtgagccgag 1320  
 atcacgtcac tgcactccag cctgggcaac aagagtgaat ttccatctca aaaaaaaaaa 1380  
 aaaaaaaaaa 1388

<210> 493  
 <211> 649  
 <212> DNA  
 <213> Homo sapiens

<400> 493  
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 gaccccctac ccagggtccag ggccagccc catgacgaac gtgtactcct tggatgggat 120  
 tctgggtgtt ggtttgctct ttggttgac ctgtgcctac ttcaagaaag tacctcgtct 180  
 caaaacctgg ctgctatcag agaagaagg tgtttgggt gtgttttaca aagccgctgt 240  
 gattggaacc aggcctgcatg ctgctgtggc aattgcttgt gttgtaatgg ccttttacgt 300  
 cctgtttata aaatgaattc caaagcacc aagtcacaa ctgccaacca aggggacggg 360  
 gatgaagaac ctgttgagga cctgaacca gtgtaggaga gttcagctga aatcatcgg 420  
 ccccaggatg acaccacagc atctgcccct gctatatgtg gggaaaactc atggtcacga 480  
 acattattta tgcttcaggg gadacagaa agccagcttc ctttgatcta tgtgtaaact 540  
 agtcttggc agagtgcata taatgtccg ataaattaca cccctcgggtg ataagattac 600  
 atacctcctt cataaaaacc tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 649

<210> 494  
 <211> 1699  
 <212> DNA  
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (9)..(9)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (1692)..(1692)
<223> n equals a,t,g, or c

```

```

<400> 494
ggcatcttnt attagcaca atgtttttaa ggtttattca tgtttagca aggtacgcaa      60
ttgtttttca tttaaagaæ aagtcctcaat gctattacaa ttttccatat tctttgcacc      120
tgtggtctgt ctccctaaat atagcccctt tatgaaggag gaatgcaaag ctgatccaac      180
tagagactac aaatttccttt atattttatat agaaaggggc acatagtaat gaattggaag      240
ccatatccaa gctagaatca tctagattta gtgagattga ctagtgcaaccaatttttt      300
gcactcatcc cctgtccatc aggtacctgg aaatgattri aawgattttg aactaggtta      360
ctggtataat catactgctg ttgagattag caggcaaatt accaagttag ttttttattg      420
gagggggaga ggtcaatgtg tgaggggtgca tagtgagagac tggggaccag gctgacaaag      480
atgaattgtt ttaggtagtgt atgactttga ggtaatggga taagttagtg aaaatgactg      540
gttggtcgtt gagatgggat ggagatggag cttggagaaa aagaatagca ctagtaaatg      600
gatttagcta gacaaaggag atttacccta ttccatttag cacagttagg agaggctaga      660
cagctaggat gcaataaaaa aaattttaat gagaaatgtg tgtgtagat taattttatt      720
aatctcaagt tatagattaa aaaattttaag taccacataa atgccatttg cctttgctaa      780
tgttacattt ttatgaagaa ggagccttgc ataaagaatg atataatgga cttttgggac      840
ttgagggaga agcttgggag ggggggtaaa ggataaaaaga catattgggt gctgtgtgta      900
cactgcttgg gtgacaagtgt gactaaaatc tcagaaatca ccactaaaga acttatctac      960
ataaccaaaa atcacctgta cccagaaaac tattgaaata aaaaaaaaga aggggacttg      1020
gacagatagc cgtattcttt gccaaattat agttacattc tgctcatggg ggattaggag      1080
gttcaatgga agaaaggccc cactcagctt tctccctc taaaatgttg ctttgtaaat      1140
tagggaattt tgcataaagc tctgaccttt acttccaagg cctttactga gaatgggttt      1200
ggatacttgg agatagatcc tgactcccta tccctcctag atctttattt atcctatttg      1260
gaaccaggag aaatggcctt aaagctgatg aaccacaggg tgtccaagtc atggagctat      1320
tgagggttct cccaagtatc ttttaaattg ctgcatttgg gatgggagca gtggcttaca      1380
cctgaaatcc cagcactttg ggaggctaag ttgggaggat tgcttgggtc tgggagttta      1440
aggccagcct gggctagatg gtgagcctct gtctctattt aagaaaatta gaaattagcc      1500
aggcatgggt acacaccagc tacttataat gctgaggcag gaggatcact tgagcccagg      1560
agtttgcggc agacagttag ctatgattgt gccactgtac tccagcctgg gtgacagagc      1620
aagaccctgt ctcttattta aaaaaaaaaa aaaaaaaaaa actcgagggg gggcccgtac      1680
ccaatcgcct tncatgatg

```

```

<210> 495
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (424)..(424)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (430)..(431)
<223> n equals a,t,g, or c

```

```

<400> 495

```



|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| cggccgctct | agaactagt   | gatccccg   | gctgcaggaa | ttcggcacga | ggcgggaagg | 60  |
| cttattccaa | ggtaagaggg  | gctgtgtgaa | ggggcagtg  | gatggaatg  | gggtggcat  | 120 |
| gggacaggca | caaggggaagc | ctccagcccc | ttttctgcca | caagcaagag | gcactcagcc | 180 |
| ctacctgaga | tgtgttattt  | tttagaaata | tctttattga | tggctcttgc | actcaataa  | 240 |
| aaggcagcat | atggttggtg  | caatataaat | ggtacagaag | tccacagagc | aaaagggcca | 300 |
| gtttctgtcc | cctttcctct  | ctccaggcct | ctttctggga | ccccattatt | ggatagatta | 360 |
| agacctttcc | agaccttgta  | aaaaaaaaaa | aaaaaaactc | ggggggggsc | ccggaaacca | 420 |
| attngcccn  | naa         |            |            |            |            | 433 |

<210> 496  
 <211> 1537  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| <400> 496   |            |            |            |            |             |      |
| atcatatag   | aaacggtagc | ctgcagtacc | ggtcgggaat | tcccgggtcg | acccacgcgt  | 60   |
| ccggagcagc  | aagagatttg | tcctggggat | ccagaaaacc | atgataccct | actgaacac   | 120  |
| gaatcccctg  | gaagcccaca | gagacagaga | cagcaagaga | agcagagata | aatacactca  | 180  |
| cgccaggagc  | tcgctcgctc | tctctctctc | tctctcactc | ctccctccct | ctctctctgc  | 240  |
| ctgtcctagt  | cctctagtcc | tcaaattccc | agtcccctgc | accccttcct | gggacactat  | 300  |
| gttggtctcc  | gccctcctgc | tgaggtgat  | ttggatcctg | gctgcagatg | ggggtcaaca  | 360  |
| ctggacgtat  | gagggcccac | atggtcagga | ccattggcca | gcctcttacc | ctgagtgtgg  | 420  |
| aaacaatgcc  | cagtcgcca  | tcgatattca | gacagacagt | gtgacatttg | accctgattt  | 480  |
| gcctgctctg  | cagccccacg | gatatgacca | gcctggcacc | gagcctttgg | actgcacaa   | 540  |
| caatggccac  | acagtgcaac | tctctctgcc | ctctaccctg | tatctgggtg | gacttccccg  | 600  |
| aaaatatgta  | gctgcccagc | tccacctgca | ctggggtcag | aaaggatccc | caggggggtc  | 660  |
| agaacaccag  | atcaacagtg | aagccacatt | tgcagagctc | cacattgtac | attatgactc  | 720  |
| tgattcctat  | gacagctga  | tgagggctgc | tgagaggcct | cagggcctgg | ctgtcctggg  | 780  |
| catcctaatt  | gagctggaaa | agcttcaggg | gacattgttc | tccacagaag | aggagccctc  | 840  |
| taagcttctg  | gtacagaact | accgagccct | tcagcctctc | aatcagcgca | tggcttttgc  | 900  |
| ttctttcatc  | caagcaggat | cctcgtatac | cacaggtgaa | atgctggtc  | taggtgtagg  | 960  |
| aatcttggtt  | ggctgtctct | gccttctcct | ggctgtttat | ttcattgcta | gaaagattcg  | 1020 |
| gaagaagagg  | ctggaaaacc | gaaagagtgt | ggctctcacc | tcagcacaag | ccacgactga  | 1080 |
| ggcataaatt  | ccttctcaga | taccatggat | gtggatgact | tcccttcatt | cctatcagga  | 1140 |
| agcctctaaa  | atggggtgta | ggatctggcc | agaaacactg | taggagtagt | aagcagatgt  | 1200 |
| cctccttccc  | ctggacatct | cctagagagg | aatggaccca | ggctgtcatt | ccaggaagaa  | 1260 |
| ctgcagagcc  | ttcagcctct | ccaaacatgt | aggaggaat  | gaggaaatcg | ctgtgttgtt  | 1320 |
| aatgcagaga  | acaaactctg | tttagttgca | ggggaagttt | ggatataacc | ccaaagtccct | 1380 |
| ctacccccctc | acttttatgg | ccctttccct | agatatactg | cgggatctct | ccttaggata  | 1440 |
| aagagttgct  | gttgaagttg | tatatTTTTT | atcaatatat | ttggaaatta | aagtttctga  | 1500 |
| ctttaaaaaa  | aaaaaaaaaa | aaaaaactcg | agggggg    |            |             | 1537 |

<210> 497  
 <211> 1782  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 497  |            |            |             |            |            |     |
| tgccgagcct | ctttggtagc | aggaggctgg | aagaaaggac  | agaagtagct | ctggctgtga | 60  |
| tggggatctt | actgggcctg | ctactcctgg | ggcacctaac  | agtggacact | tatggccgtc | 120 |
| ccatcctgga | agtgcagag  | agtgtaacag | gaccttggaaa | aggggatgtg | aatcttccct | 180 |
| gcacctatga | ccccctgcaa | ggctacaccc | aagtcttggg  | gaagtggctg | gtacaaactg | 240 |
| gctcagaccc | tgtcaccatc | tttctacgtg | actcttctgg  | agaccatata | cagcaggcaa | 300 |
| agtaccagg  | ccgcctgcat | gtgagccaca | aggttccagg  | agatgtatcc | ctccaattga | 360 |
| gcaccctgga | gatggatgac | cggagccact | acacgtgtga  | agtcacctgg | cagactcctg | 420 |
| atggcaacca | agtcgtgaga | gataagatta | ctgagctccg  | tgtccagaaa | ctctctgtct | 480 |
| ccaagccac  | agtgacaact | ggcagcgggt | atggcttcac  | ggtgccccag | ggaatgagga | 540 |

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| ttagccttca | atgccaggct  | cggggttctc  | ctccatcag   | ttatatattg  | tataagcaac | 600  |
| agactaataa | ccaggaaccc  | atcaaagtag  | caaccctaag  | taccttactc  | ttcaagcctg | 660  |
| cggtgatagc | cgactcaggc  | tcctatttct  | gcactgccaa  | gggccagggt  | ggctctgagc | 720  |
| agcacagcga | cattgtgaag  | tttgtggtca  | aagactcctc  | aaagctactc  | aagaccaaga | 780  |
| ctgaggcacc | tacaacccatg | acatacccct  | tgaaagcaac  | atctacagtg  | aagcagtcct | 840  |
| gggactggac | cactgacatg  | gatggctacc  | ttggagagac  | cagtgtctgg  | ccaggaaaga | 900  |
| gcctgcctgt | ctttgccatc  | atcctcatca  | tctccttggtg | ctgtatgggtg | gtttttacca | 960  |
| tggcctatat | catgctctgt  | cggaagacat  | cccaacaaga  | gcattgtctac | gaagcagcca | 1020 |
| gggcacatgc | cagagaggcc  | aacgactctg  | gagaaacccat | gaggggtggcc | atcttcgcaa | 1080 |
| gtggctgctc | cagtgtatgag | ccaacttccc  | agaatctggg  | caacaactac  | tctgatgagc | 1140 |
| cctgcatagg | acaggagtac  | cagatcatcg  | cccagatcaa  | tggcaactac  | gcccgcctgc | 1200 |
| tggacacagt | tcctctggat  | tatgagtttc  | tggccactga  | gggcaaaagt  | gtctgtttaa | 1260 |
| aatgccccat | taggccagga  | tctgctgaca  | taattgccta  | gtcagtcctt  | gccttctgca | 1320 |
| tggccttctt | ccctgctacc  | tctcttctctg | gatagcccaa  | agtgtccgcc  | taccaacact | 1380 |
| ggagccgctg | ggagtcaactg | gctttgccct  | ggaatttgcc  | agatgcatct  | caagtaagcc | 1440 |
| agctgtctga | tttggtctctg | ggcccttcta  | gtatctctgc  | cgggggcttc  | tggtactcct | 1500 |
| ctctaaatac | cagagggaag  | atgcccatag  | cactaggact  | tggtcatcat  | gcctacagac | 1560 |
| actattcaac | tttggcatct  | tgccaccaga  | agaccgagg   | gaggctcagc  | tctgcagct  | 1620 |
| cagaggacca | gctatatcca  | ggatcatttc  | tctttcttca  | gggccagaca  | gcttttaatt | 1680 |
| gaaattgtta | tttcacaggc  | cagggttcag  | ttctgtctct  | ccactataag  | tctaatgttc | 1740 |
| tgactctctc | ctggtgctca  | ataaatatct  | aatcataaca  | gc          |            | 1782 |

<210> 498  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 498  |            |            |             |            |            |     |
| tagtagagcg | cgtgtataga | ggcagagagg | agtgaagtcc  | acagttcctc | tcctccaaga | 60  |
| gcctgccgac | catgcccgcg | ggcgtgccca | tgtccaccta  | cctgaaaatg | ttcgcagcca | 120 |
| gtctcctggc | catgtgcgca | ggggcagaag | tggtgcacag  | gtactaccga | ccggactga  | 180 |
| caatacctga | aattccacca | aagcgtggag | aactcaaaac  | ggagcttttg | ggactgaaag | 240 |
| aaagaaaaca | caaacctcaa | gtttctcaac | aggaggaact  | taaataacta | tgccaagaat | 300 |
| tctgtgaaca | atataagtct | taaatatgta | tttcttaatt  | tattgcatca | aactacttgt | 360 |
| ccttaagcac | ttagtctaa  | gctaactgca | agaggagggtg | ctcagtggtg | gtttagccga | 420 |
| tacgttgaaa | tttaattacg | gtttgattga | tatttcttga  | aaactgcca  | agcacatatc | 480 |
| atcaaaccat | ttcatgaata | tggtttgga  | gatgtttagt  | cttgaatata | acgcgaaata | 540 |
| gaatatttgt | aagtctacta | taaaaaaaaa | aaaa        |            |            | 574 |

<210> 499  
 <211> 795  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| <400> 499  |            |            |             |             |            |     |
| ngaactagta | tattcaccgt | ctatgaggcc | gcctcacagg  | aaggctgggt  | gttcctcatg | 60  |
| tacagagcaa | ttgacagctt | tccccgttgg | cgttccctact | tctatttcat  | cactctcatt | 120 |
| ttcttctctg | cctggcttgt | gaagaacgtg | tttatttgctg | ttatcattga  | aacatttgca | 180 |
| gaaatcagag | tacagtttca | acaaatgtgg | ggatcgagaa  | gcagcactac  | ctcaacagcc | 240 |
| accacccaga | tgtttcatga | agatgctgct | ggagggttgg  | agctggtagct | gtggatgtc  | 300 |
| aacaagcccc | agggacgcgc | cccagcctgc | ctccagggtgc | agtacaatga  | cattttttaa | 360 |
| aatcgcccag | caaaggtctt | tgaattttat | ttcatccaag  | aaaatccaca  | gctctttaag | 420 |

|            |             |            |             |             |            |     |
|------------|-------------|------------|-------------|-------------|------------|-----|
| ctctagattt | gtccaaattt  | aaaatcctga | agtttagagat | ggtattttcac | tccttcctct | 480 |
| attcccagga | cctagctttt  | tttttttaac | atacacaata  | gggatttgat  | aagtttctga | 540 |
| tggctgcagg | catgtaagag  | catttcagtg | gtattgaatc  | aatgaagaat  | ttgttgaca  | 600 |
| tgtgaaatct | tataaaaaata | ttctttaccg | aaggactgag  | ttatgtggca  | gtgggtacat | 660 |
| tcattgtttc | atccctcccc  | tagtaactgg | gataaatatg  | ttgaacata   | gtctctctgt | 720 |
| ttttctgcat | ttggaagctt  | tcagaggaac | ataatgtaga  | ggtgtttctt  | tagcaaagtg | 780 |
| cactgatagc | aaaca       |            |             |             |            | 795 |

<210> 500  
 <211> 1742  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 500   |             |             |             |             |             |      |
| ggcacgagct  | cgtgccgctt  | tgtagtctag  | ggagtttaat  | taaagtaagt  | ggagacaaaa  | 60   |
| gtactctttt  | gagagctgtc  | atttctctta  | gtgtgacgct  | attaataatg  | tagtgtaatg  | 120  |
| ctattttgga  | agtttggttc  | tttctttttc  | ttttgtcttc  | ctctgactct  | tttctgtatt  | 180  |
| ctaaatgaaa  | ggggaataat  | gcacttagag  | gggggcactc  | tccaaattc   | actgtctcat  | 240  |
| gtacgacatt  | atctccgact  | tcggctctca  | tgttttgaaa  | aaatacctct  | tcacgctct   | 300  |
| atttttatatt | ttcttcttct  | tttattgtga  | atctctttta  | ccaaaaacat  | ttgtagggtt  | 360  |
| cttcacaaaag | attttttttt  | tcaatcagga  | tgaaaactag  | atcatgatgt  | gaccatttca  | 420  |
| ctgtgagtg   | aacttccctt  | tttgacagct  | ccattagatc  | tgccagggtta | taaatcttca  | 480  |
| tatttctgac  | ttgccttgaa  | atcagaaaagt | gttttcatta  | tgctagtctc  | tgtgagcaac  | 540  |
| aagcatgaag  | gaaggcatgg  | caggtatcat  | agcccctttg  | atgaacttac  | ctgtttcaac  | 600  |
| tcagtgccag  | ggcagaacat  | ttactgctaa  | ccctgatgg   | tcaactttga  | ttgcaaatta  | 660  |
| tgtgtggtac  | attttgaatt  | taaagaatgt  | ttctgagatt  | attctacgat  | cacttgtcat  | 720  |
| ttttatgtgt  | gcagtaatgt  | gttgtgtata  | acttggattt  | caacaatatc  | cattgtttga  | 780  |
| aagttagaaa  | atattctaag  | aatactaatt  | atcttgcetca | aataatcatt  | taagtacaac  | 840  |
| tgctcattga  | ttatggtgaa  | tatttttaag  | taaaattata  | tatttaaggt  | gtgctacctc  | 900  |
| taatttttatt | gtcatacaaaa | aagcagatta  | ttgaacatgt  | taatgtaaat  | tgtactttta  | 960  |
| atttttttcca | gtactctaga  | acatgtgtaa  | ggttaaaaga  | atttaaatta  | cccagggttt  | 1020 |
| tcttttttaca | taataaataa  | gaagaaatca  | caagggaagc  | agatattata  | ttgtttttta  | 1080 |
| tatacacatg  | aaattgtttg  | actttatttt  | gagacctcac  | acaagtataa  | acatggcagt  | 1140 |
| ggtgtgtatg  | atcaaagtaa  | gaaattaaaag | agttaccggt  | tctttataaa  | ccagaagtcc  | 1200 |
| attgactttt  | aataatgctg  | tctcaaatat  | ttgatagtaa  | attgtggaaa  | taatcaaaagc | 1260 |
| tgagcctatg  | ggactgtact  | ttgtagtact  | gtttaattta  | ataactctaa  | taatccctta  | 1320 |
| agaatattag  | gaaaaatagg  | ccgggtgcag  | tactcacgcc  | tgtaatccca  | gcactttggg  | 1380 |
| aggccgagga  | gggcggatca  | cctgagggtca | ggagtccaag  | accatcctgg  | ccaacatggt  | 1440 |
| gaaaacccat  | ccctacaaaa  | acacaatat   | taggcaggca  | tgatggtgag  | tgccataaat  | 1500 |
| cccagctatt  | caggaggctg  | aggcgggaga  | atctcttgaa  | cccaggaggc  | ggaggttgca  | 1560 |
| gtgagccaag  | attgcgccat  | tacactccag  | cctggggcag  | agagcgagac  | tccctctcaa  | 1620 |
| aaagaaaaag  | aaaaaagaaa  | aaagaatatt  | aggaaaaata  | tcttaatgca  | aaatatata   | 1680 |
| attagtaatc  | tgccaacact  | gagatgtact  | ataaggccaa  | gaagaaaaaa  | aaaaaaaaaa  | 1740 |
| aa          |             |             |             |             |             | 1742 |

<210> 501  
 <211> 1443  
 <212> DNA  
 <213> Homo sapiens

|             |              |            |            |             |             |     |
|-------------|--------------|------------|------------|-------------|-------------|-----|
| <400> 501   |              |            |            |             |             |     |
| ggaaccattg  | gcctatatattg | ggttggact  | attattatga | gtgttgttgt  | ttttgtgcca  | 60  |
| ggaacacattg | tagggaagta   | tggaacacga | atttgccctg | cttttttctt  | aagcatacca  | 120 |
| tatacttgtc  | ttcctgtctg   | ggctggtttc | agaatctata | atcagccatc  | agaaaattat  | 180 |
| aattaccctt  | caaaggttat   | tcaagaagcc | caagcgaaag | acctgctgag  | aagaccattt  | 240 |
| gatttaaatgt | tggttgtgtg   | tctcctcctg | gcaactggat | tttgccctgtt | cagagggtttg | 300 |
| attgcttttg  | attgcccatc   | tgagctctgc | cgattatata | cgcaatttca  | agagccctat  | 360 |

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ctaaaggatc  | ctgctgctta  | tcctaaaatt | cagatgctgg  | catatatgtt  | ctattctgtt | 420  |
| ccttactttg  | tgactgcact  | gatgggctta | gtgggttcctg | gatgttcctg  | gatgcctgac | 480  |
| atcacattga  | tacatgctgg  | aggtctgggt | caggctcagt  | tttctcacat  | tggtgcatct | 540  |
| cttcatgcta  | gaactgctta  | tgtctacaga | gtccctgaag  | aagcaaaaat  | ccttttttta | 600  |
| gcattaaaca  | tagcatatgg  | agttcttcct | cagctcttgg  | cctatcgttg  | tactacaaa  | 660  |
| ccagagttct  | tcataaaaaac | aaaggcagaa | gaaaaagtgg  | aataaaaaata | ttacttcatg | 720  |
| ttcctccttt  | ctaaattact  | aacttttggt | atactggtac  | tgatattttg  | tcccatttca | 780  |
| ctctcttttc  | atacgtgagt  | acttaagaat | atgtacattc  | ttgctctgca  | ctgtatgtgt | 840  |
| gagctatatg  | gtattgtgta  | aatttttttt | gaaggaaaat  | ggaaattctt  | gagaaacagt | 900  |
| ttgtttaaag  | aaatatattc  | aaaatcattt | gtgaataaac  | ttgatcatcc  | atctcaatat | 960  |
| tgtttgacat  | ataaaataat  | tataagtgtg | aaaaattaca  | atttagtgcc  | aacagtagtg | 1020 |
| agcatgaaat  | gaaactattc  | aaaagagaat | atggcctgtg  | catattaaa   | aattcaaaac | 1080 |
| agtgaatgca  | gactggagga  | gtaacttttg | caaataagat  | gaatatgctt  | cattattaaa | 1140 |
| ctcaatataa  | aaggcaaadc  | atcagaatat | ttttaaatgt  | tgtttgaaaa  | atgttttccc | 1200 |
| aaggaaaagt  | tattatttgc  | tgctgtttca | agaaaattac  | ttttactaaa  | tttttttgtg | 1260 |
| tgaattttaa  | cagctaaaata | gggatcagta | actttatctc  | tatccttaat  | gaacatttgt | 1320 |
| tttatttggtg | gctggaaata  | tttctattgt | atcttctgtg  | atatttttaa  | taaaattatt | 1380 |
| tttggcctct  | taaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaactc | 1440 |
| gag         |             |            |             |             |            | 1443 |

<210> 502

<211> 462

<212> DNA

<213> Homo sapiens

<400> 502

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagctgggc | tcaagtgate | ctcctgccga | ggcctcccaa | attgctggga | 60  |
| ctgcagctgt | gagccaccat | gccagcctt  | aacttgggtt | taagacctct | gatttgcctt | 120 |
| gcctcaatta | cctcctttct | tattttcttt | cctttgttga | ctctcatact | ctgttctcct | 180 |
| aattctcccc | cttttccact | ccctgccac  | cctgaaagac | acacacacac | acaataagtg | 240 |
| ggtggagtaa | gaagtcaacg | gagttggata | taagcattcc | tgcttttctg | acatctccag | 300 |
| tgtcttggag | aacaaggatt | ctagaatgag | ggctcctcat | atgcttccct | ttcaacattt | 360 |
| tttctctgtg | ttacttaagc | tttcaccca  | agcatgtttg | acagagagcc | agtgcattcc | 420 |
| ccttactttt | tacaaaaata | aaaaaaaaaa | aaaaaaactc | ga         |            | 462 |

<210> 503

<211> 2541

<212> DNA

<213> Homo sapiens

<400> 503

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tggggaaacg | gtccctctag | aactagtggg | tccccggggc | tgcaggaatt | cggcacgagg | 60  |
| agaaggtcac | taccatcatg | gagatggctt | ccaagatgaa | agacacaggg | ttcatcgtgt | 120 |
| ttgctgtgct | tctgctgggt | tcatgcctca | tcctcatctt | tgtcattgcc | ccacgttacg | 180 |
| ggcaaaggaa | tatcctcatc | tacatcatca | tctgctctgt | gatcggggcc | ttctctgtgg | 240 |
| ctgctgtcaa | ggggctgggc | atcaccatca | agaacttctt | ccaggggctg | ccagttgtcc | 300 |
| ggcaccgcgt | ccctacatc  | ctgtccctca | tcttggcact | gtccctcagc | actcaggtca | 360 |
| acttcctcaa | cagagcactg | gacattttca | acacttccct | ggtgttcccc | atctactacg | 420 |
| tgtttctcac | cacgggtggc | gttacctcgt | ccatcatcct | cttcaaggag | tggtacagca | 480 |
| tgtctgtctg | ggacattgca | ggcaccctct | cgggctttgt | caccatcatc | ttgggcgtgt | 540 |
| tcatgtgca  | tgctttcaaa | gacctggaca | tcagctgcgc | cagcttgccc | cacatgcaca | 600 |
| aaaaccaccc | cccttctccc | gccccggaac | ccactgtcat | tagactggaa | gacaagaacg | 660 |
| tccttgtgga | caatatagaa | cttgccagca | cctcatcacc | agaagagaaa | cccaaagtat | 720 |
| ttataatcca | ttcctgaagc | ttggaatatg | tgagtgaag  | gatgagtcg  | atggtacagc | 780 |
| ctgccctccc | aatttcaaaa | ccacctgggt | attttccagt | gcaactgtta | ccaatgggct | 840 |
| ctcttttctt | gagaagttca | tttataacct | atcactgttt | ccaggagaaa | aatctttacc | 900 |
| caaatagcaa | tggtggcaga | acttcctgga | aacagattca | gtgaccaaat | acccaagttt | 960 |

|            |             |             |             |              |             |      |
|------------|-------------|-------------|-------------|--------------|-------------|------|
| acatcagtg  | ctgcaggttc  | cctggacctt  | ccttctcatt  | cattcttttcg  | gtgccatctc  | 1020 |
| tatgccgttg | ggaagaagat  | ggagtcctgac | ccactgaatg  | tagcacagtc   | caaggacttc  | 1080 |
| tctaagatat | tggtcattgg  | aagttccttc  | acaccaattc  | tcctcctgag   | acggaatctc  | 1140 |
| cgttggtgtt | gttggtgttg  | ttttctagcc  | caaggatgac  | atagagctgg   | ctcccagagg  | 1200 |
| cccacagagc | aattggccat  | gcctccctat  | ccagagctga  | cagggacaca   | accagtgtaa  | 1260 |
| aatatcctgt | tgcctttgtc  | acttcctctt  | tggaggcaga  | agcaagacct   | cagctgacct  | 1320 |
| tcttactgtg | aaagccactt  | gatgtctcag  | ggaaaaat    | caaccagctc   | attccccgag  | 1380 |
| cactccagcc | tggcagtcag  | cacctcggca  | tccaccag    | ccatcccacc   | atcacccctt  | 1440 |
| ccccctctac | ttacatccta  | agggtcgg    | cactgagaca  | taaaggcagt   | aatcgagaa   | 1500 |
| ctggaacaa  | aacaataaca  | gagccacagc  | caaactctgg  | tggccaaacc   | cagtgttgca  | 1560 |
| ttttgtctta | ctctgaaaga  | agaacagcaa  | attcactgct  | tcaaagtggc   | ctggctgcca  | 1620 |
| agctagaatt | tggcagaacg  | cacttttcta  | ttcctcaagg  | agtcaaccaa   | cctagatct   | 1680 |
| ggggaggtgg | gaagaggatg  | aggagcaaag  | ttgggatttg  | gcagaaggca   | gtcccaggct  | 1740 |
| ctctggatac | taggggctaa  | cttttgtgtt  | gactctgggtg | ctcatctggg   | aacttaggag  | 1800 |
| aaacgagctc | aggggtaatt  | tctgggttgc  | agccttaaac  | gcttggacag   | ctgtgaatct  | 1860 |
| caatggccaa | ctggaggtc   | agacttggca  | tgggtgcat   | tctagctgtt   | gaccagttg   | 1920 |
| ctaccgagtc | ccytccctcca | ctgatgagct  | gcccacactg  | ggaagcagca   | tgccctgact  | 1980 |
| gttccaacac | cacctgctat  | ggggagtacc  | tttgggtccc  | tcacatttgg   | ccagaggata  | 2040 |
| caaaaaacca | gagcagctgg  | agagggagat  | aattactatt  | ccttcccttccc | atctcctt    | 2100 |
| tctagccaca | agagtgtggg  | ggttggagaa  | gaaccattag  | aaagggaaat   | tagtgggctg  | 2160 |
| gtgtatctgg | aaagagggaa  | gacttgatcc  | tcagccccga  | ggttgggtgca  | gggcctcccc  | 2220 |
| tgtgtgactc | tacctgcact  | ctgtgtttat  | atcctgtgcc  | ctaagtgggc   | caagcccagg  | 2280 |
| taaattcctg | ctggccttgg  | aactccaagg  | tttggctgac  | cagcagactg   | gctccctgac  | 2340 |
| tcttcagcct | caaatcccca  | gtttttgatg  | aatgtggatt  | tctgtctgta   | attaaaagca  | 2400 |
| atgcaacaag | ttggctcttg  | agaatggcag  | taaactgagg  | gccctaagag   | tgtggctctgc | 2460 |
| agggtcaaga | ataaagatta  | cagattatat  | ttacttgaaa  | aaaaaaaaaa   | aaaaaatctc  | 2520 |
| ctgcggccgc | aagggaattc  | a           |             |              |             | 2541 |

<210> 504  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| <400> 504   |             |            |             |             |             |     |
| agggatcccc  | cgggctgcag  | gaattcggca | cgagtctact  | ctcaaaaaat  | tcagaaacat  | 60  |
| ataatttgtg  | gcatttgc    | gtgcaacagt | acacacaaac  | atacataaag  | agagcaattg  | 120 |
| ataaggcaaa  | taaggtaaac  | tttaacaata | atctgataca  | cataaataga  | gaaagagcaa  | 180 |
| ttgataaaagt | aaatgaggta  | aaatttaaca | ataatctgag  | caaaagggtat | atgtgttttc  | 240 |
| tttgagacag  | tctgattctt  | gcaacttatt | ctgtaagttg  | gaaattattt  | ccaaacatga  | 300 |
| ttgaaaaaaaa | accccgcact  | tggcaacttc | ttctcttttt  | cagcctagaa  | atgtctgtgt  | 360 |
| taagtgggtt  | tttatttatt  | gttggtgttt | gttggttattg | ttgttttgtt  | gccaggctcc  | 420 |
| aactcacaaa  | atacgagttt  | aaaaactgcg | ttgttatttt  | tagagattttg | tgataataca  | 480 |
| acttggtata  | aaattttattc | ctcaataaat | ataattttctc | tactaaaaaa  | aaaaaaaaaaa | 540 |
| aaaaaaaaaaa | aaaaaactcg  | a          |             |             |             | 561 |

<210> 505  
 <211> 809  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 505  |            |            |            |            |            |     |
| ggcacgagga | gaatcatggg | cctctggctg | ggcatgctgg | ccttggctt  | cctggcaact | 60  |
| gctgcctttg | ttgcttatac | tgcccggtg  | gactggaagc | ttgctgcaga | ggaggctaag | 120 |
| aaacattcag | gccggcagca | gcagcagaga | gcagagagca | ctgcaaccag | acctgggcct | 180 |
| gagaaagcag | tcctatcttc | agtggctaca | ggcagttccc | ctggcattac | cttgacaacg | 240 |
| tattcaagg  | ctgagtgcca | cgtggacttc | ttcaggactc | cagaggaggc | ccacgccctt | 300 |
| tcagctccta | ccagcagact | atcagtgaaa | cagctggtca | tccgccgtgg | ggctgctctg | 360 |

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggggcggcgt | cagccacact | gatggtgggg | ctcacggtca  | ggatcctagc | caccaggcac | 420 |
| tagcaaagaa | gcttggaat  | agaaagccag | gagtggctg   | ccccagtatg | caaacacacc | 480 |
| acggtctgcc | ctgcaaaaac | accaatgggg | tctagtgcag  | gtggacactt | tgaaccactc | 540 |
| ctcaaaaaaa | gaactttggc | tgattccttg | tggtgacact  | cagaggggtc | tgaacagact | 600 |
| tgacaattct | gttctggtca | agctggagtt | ttcttctgtg  | acttggactg | ctctacagaa | 660 |
| gacatcagcc | aactgcacga | gtcagagtcc | agggattgtc  | actattatta | ataatgtaaa | 720 |
| tggcttcaaa | tgggacactg | cagataaaat | cacaaaaaacc | actgttatat | taaagattac | 780 |
| acatttcctg | gaaaaaaaaa | aaaaaaaaaa |             |            |            | 809 |

<210> 506  
 <211> 1151  
 <212> DNA  
 <213> Homo sapiens

<400> 506

|             |             |            |    |             |            |             |      |
|-------------|-------------|------------|----|-------------|------------|-------------|------|
| ggcacgagtg  | tcaatgaaag  | tgttttcta  | at | gcaactgcga  | ttgactccca | gatagctaga  | 60   |
| agttttgcaca | tcccactcac  | ccaggatata |    | gctgggtgacc | caagctatga | aattagcaaa  | 120  |
| cagagactca  | gtattgtcat  | tggcgtgggt |    | gctggcatta  | tgacggtgat | tctaatactc  | 180  |
| ttaattgtag  | tgatggcaag  | gtactgcagg |    | tccaaaaata  | aaaatggcta | tgaagccggc  | 240  |
| aaaaaagatc  | acgaagactt  | ttttacaccc |    | caacagcatg  | acaaatctaa | aaagcctaaa  | 300  |
| aaggacaaga  | aaaacaaaaa  | atctaagcag |    | cctctctaca  | gcagcattgt | caactgtggag | 360  |
| gcttctaagc  | caaattggaca | gaggtatgat |    | aggtcaatg   | agaagctgtc | agacagccca  | 420  |
| agcatggggc  | gatacaggtc  | cgtaaattgg |    | gggcccgga   | gtcctgacct | ggcaaggcat  | 480  |
| tacaaatcta  | gttccccatt  | gcctactgtt |    | cagcttcata  | cccagtcacc | aactgcagga  | 540  |
| aaaaaacacc  | aggccgtaca  | agatctacca |    | ccagccaaca  | catttgtggg | agcaggagac  | 600  |
| aacatttcaa  | ttggatcaga  | tcaactgctc |    | gagtacagct  | gtcaaaccac | taacaagtac  | 660  |
| agcaaacaga  | tgcgtctaca  | tccatacatt |    | actgtgtttg  | gctgaattcc | actctaata   | 720  |
| gatgtcccat  | tatgcaccat  | actgtgatga |    | cctttctact  | ccgaaacctg | ctggagcctg  | 780  |
| cccttgggcg  | tgggggtgtc  | gccaataact |    | gcttgttcca  | cttgttgtac | attttatttt  | 840  |
| tgagtctttt  | tctttctcat  | atacagaaaa |    | atagtatgaa  | aataaaaata | atgtatgaaa  | 900  |
| cagtattaat  | gcagaaatgt  | gctactaatg |    | gatgtctgag  | tcaccagaaa | ttccattctt  | 960  |
| aaagaggcgg  | ttagcaccta  | ttagacgtaa |    | cagtgtgtgc  | ttttaaaaaa | tccaaaaga   | 1020 |
| tattgcaaca  | ataagtttga  | gactttgtgt |    | gaacaaaggg  | aaattcagcc | tcttatgtct  | 1080 |
| ttgtctttaa  | tacattaaat  | actgattttg |    | aataaaaatc  | taaattgatc | aataaaaaaa  | 1140 |
| aaaaaaaaaa  | a           |            |    |             |            |             | 1151 |

<210> 507  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 507

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgaggc | ggcgctgcga | ggacccatgc | agctgacgct | ggggggcgcg | gccgtggggc | 60  |
| cgggcgccgt | gctggccgcc | agcctgctct | gggcgtgcgc | cgtgggcctc | tacatggggc | 120 |
| agctggagct | ggacgtggag | ctggtgccc  | aggacgacgg | gacggcctcc | gcggaaggc  | 180 |
| ctgatgaggc | gggtcggccg | ccaccgaggt | gagcgacacg | gccgtggggc | ctggcaggcg | 240 |
| ctggacagcg | cccaggact  | gggacattaa | acctgacctc | ccctcctcca | aaaaaaaaaa | 300 |
| aaaaaaaaaa |            |            |            |            |            | 308 |

<210> 508  
 <211> 1986  
 <212> DNA  
 <213> Homo sapiens

<400> 508

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| ggcacgaggg | aaaactgttt  | tatttgcatt | tgaagaagct | attggataca | tgtgctgccc | 60  |
| ttttgttctg | gacaaaagatg | gagtcagtgc | cgctgtcata | agtgcagagt | tggctagctt | 120 |

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| cctagcaacc  | aagaatttgt  | ctttgtctca  | gcaactaaag  | gccatttatg | tggagttagg  | 180  |
| ctaccatatt  | actaaagctt  | cctattttat  | ctgccatgat  | caagaaacca | ttaagaaatt  | 240  |
| atttgaaaac  | ctcagaaact  | acgatggaaa  | aaataattat  | ccaaaagctt | gtggcgaatt  | 300  |
| tgaaatttct  | gccattaggg  | accttacaac  | tggctatgat  | gatagccaac | ctgataaaaa  | 360  |
| agctgttctt  | cccactagta  | aaagcagcca  | aatgatcacc  | ttcacctttg | ctaattggagg | 420  |
| cgtggccacc  | atgcgcacca  | gtgggacaga  | gccc aaaatc | aagtactatg | cagagctgtg  | 480  |
| tgccccacct  | gggaacagtg  | atcctgagca  | gctgaagaag  | gaactgaatg | aactggtcag  | 540  |
| tgctattgaa  | gaacattttt  | tccagccaca  | gaagtacaat  | ctgcagccaa | agcagacta   | 600  |
| aaatagtcca  | gccttgggta  | tacttgcatt  | taoctacaat  | taagctgggt | ttaacttggt  | 660  |
| aagcaatatt  | tttaagggcc  | aaatgattca  | aaacatcaca  | ggtatttatg | tgttttacaa  | 720  |
| agacctacat  | tcctcattgt  | ttcatgtttg  | acctttaagg  | tgaaaaaaga | aaatggccaa  | 780  |
| acccaacaaa  | ctaacattcc  | tactaaaaag  | ttgagcttgg  | acatattttg | aatttttgta  | 840  |
| agtgaagatt  | tttaaactga  | ctaacttaaa  | aaaatagatt  | gtaattgatg | tgcccttaatt | 900  |
| tgataaaatc  | ataaatgtat  | gtcctctctg  | taattgtttt  | aatgtgtgct | tgaaatatcc  | 960  |
| agaaaacctg  | tggagttagt  | aaattctggg  | ctgtcatatg  | taggaagcc  | acttttttagg | 1020 |
| tatatgtaca  | tttatatttc  | tatcaattcc  | ttagaaagta  | aaataaatga | atagatcaaa  | 1080 |
| tgttgtgttc  | atgtttgggg  | aaaatataat  | ttgcagaaac  | ctatgaagta | gagcaaagat  | 1140 |
| gctttaaaaa  | gataagtttt  | tttgaactaa  | atttttttta  | gttctaataa | tgcacatagg  | 1200 |
| atatttagtac | atcgtacacg  | tgctaggaaa  | aaacagcttc  | agtgtctttg | tttaatgtgt  | 1260 |
| tgaaactcat  | ctttttaaat  | cttgaaaaac  | caattgttta  | cttgaaactt | gaaagtagca  | 1320 |
| tatttttctg  | ttttttgggt  | gtttgttcat  | ttgtattagc  | acaatttaat | gtaattcctg  | 1380 |
| gtttggaggc  | agcaagacct  | atgagcaaga  | actatttact  | tgaccctcgt | ttttttctct  | 1440 |
| tgttcttctg  | tggtctgaaa  | tctaaaaacta | gactttatta  | tgatagattt | cctataagcc  | 1500 |
| aattttcta   | aa caaataga | tttattattt  | aatctgtacc  | ttctatcttc | tcataattcg  | 1560 |
| tggtctttaca | gccttcctaaa | ataactccag  | ttgggcaccc  | atgagctagg | atcaaaacttt | 1620 |
| ctttatatac  | tttatatatt  | ttacattatt  | tctgattttt  | aaagcaaatg | attgccatta  | 1680 |
| tgattacact  | caacctaaat  | agttatgaac  | agtttcagaa  | caatgaaaaa | ttacaatact  | 1740 |
| atgtgatagt  | attgtaacta  | tttttctatt  | ttagtcatat  | gtcgcttata | tcctaccaga  | 1800 |
| actcttaaat  | ctataaatatt | cgatatattc  | tacaactgc   | tttattgtag | aagccatatt  | 1860 |
| tatgttttatt | ttataatggt  | ttctagtgtc  | aaactgtact  | gtggagaaaa | gaaatgttag  | 1920 |
| atctgtgttc  | tgtctgcatt  | ttttttgagt  | acataccctt  | caccctcaaa | aaaaaaaaaa  | 1980 |
| aaaaaa      |             |             |             |            |             | 1986 |

<210> 509

<211> 1781

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 509

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ncagcactcg  | gttccgtgca | actttcaagt | gagttgcgaa | ctccgccctg | taggccggtg | 60  |
| ctgggtggccc | ggcgcgctgg | aaccgcggcg | acccgtcca  | gcgcgggacc | agcagcaagg | 120 |
| gccgagcgcc  | aggttctccg | cggcagaaa  | ggcgggtggg | agctgtaact | gccccggccg | 180 |
| cggggcgcg   | cgcgtcccaa | gtcggcttcc | tccccgcgg  | ggcgcgtttg | cctcgggtct | 240 |
| ccccattctc  | caggtcccct | gaactgcaca | gtcggaggcc | gtgggcgggc | ggctctgcct | 300 |
| ccgcgcaggg  | acagccggat | cgccccctg  | cttcccga   | ctgccctgat | cacccccctg | 360 |
| cccagccctt  | gagtgaaagt | ccttctgagc | ggcttccctg | ggctcctccc | acgtcccaaa | 420 |
| ggccggcaag  | atggtgtcct | ggatgatctg | tcgcctgggt | gtgctgggtg | ttgggatgct | 480 |
| gtgtccagct  | tatgcttctt | ataaggctgt | gaagaccaag | aacattcgtg | aatatgtgcg | 540 |
| gtggatgatg  | tactggattg | tttttgca   | cttcatggca | gcagagatcg | ttacagacat | 600 |
| ttttatctcc  | tggttccctt | tctactatga | gatcaagatg | gccttcgtgc | tgtggctgct | 660 |
| ctcacccctac | accaagggcg | ccagcctgct | ttaccgcaag | tttgtccacc | cgccccctg  | 720 |
| ccgccatgag  | aaggagatcg | acgcgtacat | cgtgcaggcc | aaggagcgca | gctacgagac | 780 |

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| cgtgctcagc | ttcgggaagc  | ggggcctcaa | cattgcccgc | tccgctgctg  | tgcaggctgc  | 840  |
| caccaagagt | cagggggcgc  | tggccggcag | gctgcccagc | ttctccatgc  | aggacctgcg  | 900  |
| ctccatctct | gacgcacctg  | cccdgcta   | ccatgacccc | ctctacctgg  | aggaccaggt  | 960  |
| gtcccaccgg | aggccaccca  | ttgggtaccg | ggccgggggc | ctgcaggaca  | gcgacaccga  | 1020 |
| ggatgagtgt | tggtcagata  | ctgaggcagt | cccccgggcg | ccagcccggc  | cccagagagaa | 1080 |
| gcccctaate | cgcagccaga  | gcctgctgt  | ggtcaagagg | aagccaccgg  | tgcggagg    | 1140 |
| cacctcgcg  | tcctgaagg   | ttcggacgag | gaaaaagact | gtgccctcag  | acgtggacag  | 1200 |
| ctagggctcg | ctgcattctg  | cccccttcta | cctcgtgccc | tgcagggtc   | cagggctatt  | 1260 |
| tggagggacc | ttgggctgca  | catctggcct | gcctgcacca | gctgcctggg  | ccccaccctc  | 1320 |
| ctgactcctg | ctgatggta   | agggccggga | gcagatgctg | ccaaggccac  | atgcagggat  | 1380 |
| gcaccacaaa | tgtaccaaag  | caggctgggc | ccagggttct | atattattgcc | ttgctctgcc  | 1440 |
| ctctcccttc | cccggttggtg | ggacaagagc | cctccctgaa | cccctgcaac  | cctccctgaa  | 1500 |
| cccctgcaaa | tgaaccacaa  | cgtccacctg | ggtgtgttca | ttccttcctgt | ccttcaaaag  | 1560 |
| tacttgatag | cctttcataa  | ggcctggcac | atgtgtcctg | gttgtgtgtg  | tgtgtgttgg  | 1620 |
| tgagttaggt | caggtttgcg  | agtgttttga | taaataaata | cataaagggg  | caaaaaaaaaa | 1680 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaggggcggg  | 1740 |
| ccgttttaaa | ggatccaagt  | ttacgtacgc | gtgcatgcaa | c           |             | 1781 |

<210> 510  
 <211> 1410  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 510  |            |            |            |            |            |      |
| cagatcaggg | tcttaagaag | attatctttc | atagtgccta | tttgatggta | atgatcataa | 60   |
| atacagtata | atagaaggaa | aaatatctgg | tggcttatat | gcattgggtg | tttctcatgg | 120  |
| taataagcat | ttttttttct | cttcctttta | gcacaagtgc | atacaccttg | atagcaccaa | 180  |
| atataaaccg | gagaaatgag | atacaaagaa | ttgcggagca | ggagctggcc | aacctggaga | 240  |
| agtgaagga  | gcagaacaga | gctaaaccgg | ttcacctggt | gccagacgg  | ctaggtggaa | 300  |
| gccagtcaga | aactgaagtc | agacagaaac | aacaactcca | gctgatgcaa | tctaaatata | 360  |
| agcaaaagct | aaaaagagaa | gaatctgtaa | gaatcaagaa | ggaagctgaa | gaagctgaac | 420  |
| tccaaaaaat | gaaggcaatt | cagagagaga | agagcaataa | actggaggag | aaaaaaagac | 480  |
| ttcaagaaaa | ccttagaaga | gaagcattta | gagagcatca | gcatacaaa  | accgctgagt | 540  |
| tcttgagcaa | actgaacaca | gaatcgccag | acagaagtgc | ctgtcaaagt | gctgtttgtg | 600  |
| gccacaatc  | ctcaacatgg | gccagaagct | gggcttacag | agattctcta | aaggcagaag | 660  |
| aaaacagaaa | attgcaaaag | atgaaggatg | aacaacatca | aaagagtga  | ttactggaac | 720  |
| tgaacggca  | gcagaaagag | caagaaagag | ccaaaatcca | ccagactgaa | cacaggagg  | 780  |
| taaataatgc | ttttctggac | cgactccaag | gcaaaagtca | accaggtggc | ctcgagcaat | 840  |
| ctggaggctg | ttggaatatg | aatagcggta | acagctgggg | tatatgagaa | aatattgact | 900  |
| cctatctggc | cttcatcaac | tgacctcgaa | aagcctcag  | agatgctttt | tcttaatgtg | 960  |
| attttgttca | gcctcactgt | ttttacctta | atttcaactg | cccacacact | tgaccgtgca | 1020 |
| gtcaggagtg | actggcttct | ccttgtcctc | atttatgcat | gtttggagga | gctgattcct | 1080 |
| gaactcatat | ttaatctcta | ctgccaggga | aatgctacat | tatttttcta | attggaagta | 1140 |
| taattagagt | gatgttggtg | gggtagaaaa | agagggagtc | acttgatgct | ttcaggttaa | 1200 |
| tcagagctat | gggtgctaca | ggcttgtctt | tctaagtgac | atattcttat | ctaattctca | 1260 |
| gatcaggttt | tgaagctttt | gggggtcttt | ttagatttta | atccctactt | tctttatggg | 1320 |
| acaaatatgt | acaaaagaaa | aaggtcttat | attcttttac | acaaatttat | aaataaattt | 1380 |
| tgaactcctt | cctgtgataa | atgggtccat |            |            |            | 1410 |

<210> 511  
 <211> 1303  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 511  |            |            |            |            |            |     |
| aggttaaatg | cgtacttttc | taacctttgt | tattttgaaa | gttattctga | tattcctatc | 60  |
| cagttgtgcc | tcatttacta | gaaatttgct | cacatggcca | aatgatgtat | ccacagaaca | 120 |



|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| atttgaact  | agaccttttg  | gaagcgaact | cctacaaact | gtcatcaatg | ttagcagaac | 180  |
| ttgagcaaag | acctcaaccc  | agccatcctt | gtagtaattc | catcttcagg | tggagggaaa | 240  |
| aggtaacatt | taaggagact  | ggttgtaatt | tttgattgg  | gcctgctggg | tggagtggct | 300  |
| taaagtagca | tcagggcaaa  | aaaggtgtta | ggaattctat | gtgatattaa | tattcatgca | 360  |
| gtaggttaag | aagataaatg  | ttttwatttt | tcttttgagc | acaataacaa | gagctagaca | 420  |
| aaaccgaata | cattctgtgt  | acaccaaact | tctatgagaa | gctaaaaaac | acttttgatt | 480  |
| tcttctttct | catcatacct  | gaatttcate | ctttggatgt | gcttttacag | taaaatttct | 540  |
| attaaattga | aattttaata  | ttcgttcaga | cctaaattat | aagattttgt | ggtatgtatt | 600  |
| agtctcatct | gtttaagatg  | gtgcctaata | cagataatgc | atcagtacag | ctctgaaatg | 660  |
| ctttagacta | tttttattac  | tgatcagaag | ggggaactgt | aatcatcttg | tgaagggaca | 720  |
| gttttctaag | gctcaagagc  | tcgaaaacaa | tctcaatcat | ttacagggtt | gtgatcattt | 780  |
| cacttgcat  | aagccaacta  | aagttgtatt | tgtaaaagta | atgctatgaa | tattactatt | 840  |
| tgacctagac | acatagggtta | gaattggaaa | cacaggctat | aaagtatagt | aattgtgaa  | 900  |
| ttgtgaaaat | attaaggcct  | caactcaaaa | ctgaaacaca | gtagggttta | gaaatctttg | 960  |
| aattatttat | accctcagt   | ttaaaaactt | ccagtcagg  | cgcagtggct | catgcctgta | 1020 |
| atcccagaac | tttgggagc   | caaggcaggc | ggatcacctg | aggtcaggag | ttcgagagca | 1080 |
| gcctggctga | cacggtgaaa  | ccccgtctct | actaagaata | caaaaattag | ccaggcatgg | 1140 |
| tggtgggcac | ctgtaatccc  | agctacgggg | gaggctgagg | caggagaatc | acttgaaccc | 1200 |
| gggaggtgga | ggtttagatg  | ggccaagatc | atgccactgc | actccagcct | gggtgaacag | 1260 |
| ggcaagactc | tgtctaaaaa  | aaaaaaaaaa | aaaaactcgt | agg        |            | 1303 |

<210> 512

<211> 2118

<212> DNA

<213> Homo sapiens

<400> 512

|            |            |             |             |             |            |      |
|------------|------------|-------------|-------------|-------------|------------|------|
| ggcacgagca | taaattgata | acattaaaaag | caagcaaaaac | tctaataata  | aaaggataaa | 60   |
| ttgaatttat | gtacattctc | tggtgaatat  | tgcatatcaa  | ggaaaatgtg  | aaaaatgtaa | 120  |
| atacagccgt | gtaaatgaag | aggaaaaatgt | aaagctaaac  | gggaaatagc  | gtatctatat | 180  |
| tttaggtaac | attttaaata | tgataatagc  | taatatTTTT  | atgaaccctt  | tactatgtgc | 240  |
| agggtacttg | ttctgttttg | cctacacatt  | aattcattta  | atcctcctaa  | caacctctga | 300  |
| ggtatgtagt | attactgccc | cattttttca  | agctgtgctg  | cagtcgagtg  | cctgtccaag | 360  |
| tacacactgg | cctgagtagg | cccaggaggc  | tggtgtatgt  | ggctccgcag  | cctccactcc | 420  |
| tgtccactgt | gcacactgcc | tctgttatat  | taattcatca  | aatattgagg  | gtccctttga | 480  |
| tgccacgcac | tatccaccac | tgccaccctg  | acacttagac  | cctaaccagat | atggctgttg | 540  |
| ctcgtgagga | tctttattta | ttaggaggtg  | atagaaagta  | aaatcagata  | atgcatgcca | 600  |
| cgtggatcat | taaaacagac | tgagttgcaa  | agagtgactc  | cgtggtttct  | gtggcttggt | 660  |
| tggtcagaaa | ggtgtttctg | agatgaagct  | gagcagagct  | gtccaaagaa  | caggaaagaa | 720  |
| ccagctaggc | tgtgattggg | ggatagtgg   | ttcaggcaga  | aagaagct    | actgggtttc | 780  |
| ctagggtgtt | tgagcacag  | ccggtgagg   | gcacatagct  | gggccagggc  | atgtagagct | 840  |
| tggtcagcct | ctggaaggca | ttgggatttt  | atgctaagta  | tgttggaag   | cctttggagg | 900  |
| gagaatggat | tgtgtgtggc | tctggctggc  | agcagccagt  | taggctttca  | cagtagacaa | 960  |
| ggggagatga | ttgtggcttg | ggtgacagt   | tattataatt  | acggagaaa   | gtttggatat | 1020 |
| gattcagaga | tagggctgac | agagcttgct  | gttggttag   | atgtaggaaa  | ttagcaaaag | 1080 |
| aaaggaatgg | gagagcagag | attgggattc  | aactggagcc  | atagtagcca  | tgtgttggtt | 1140 |
| atcagacatc | caaggggagg | tgccaaattg  | ctagttggct  | acagggatct  | ggcattctgt | 1200 |
| gagaggccaa | ggcttgggta | tataggttat  | gtgtggataa  | ctgcatctcc  | cacatgctta | 1260 |
| ggaggccaga | taaaacagtg | caagaaaata  | ttacaataa   | ggattatgga  | caatttgagt | 1320 |
| ttccttctac | tttcctttgt | gaaaatgtgt  | tgcttttaaa  | atcaaaccac  | tgattccttt | 1380 |
| ttccaagtct | gataaatatt | gaagaatttt  | tagagaaact  | aagttacaaa  | gttatagtac | 1440 |
| ttatataatc | agaattggca | tggtgtagag  | atgtcaaagt  | gggtgttttg  | ctttttaata | 1500 |
| ctttgtatca | gggttatatt | ttaacaaaga  | gataagaata  | ttagagacag  | gagtgggtgg | 1560 |
| tcacacgtgt | aatcccagca | ctttgggatg  | ccggtgtggg  | tggatcacca  | gaggtcaaga | 1620 |
| gttcgatacc | agcctggcca | acatggtgaa  | accctgtctc  | tactataaat  | acaaaaatta | 1680 |
| gccaggtgtg | gtggcgcaca | cctgtaatcc  | cagctgttca  | gcggactgag  | gcacggaaat | 1740 |
| cgcttgaacc | tgggagctgg | aggttgca    | gagccaagat  | tgtgccactg  | ccgtccagtc | 1800 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| tgggcaacag | agtgagactc | tgtctcaaaa | taataataat  | aatagagtct | agtcttcatt | 1860 |
| ttgccactaa | aattatgtct | ctctatatat | ttatattattc | aacacgtatt | tattgaaagc | 1920 |
| ttgtcatgtg | cctggcattg | ttctaggtgc | taggaatata  | gcagtgaaca | gaatccacaa | 1980 |
| gtcctcccct | cagggagctt | tacattctag | aagggaaga   | agttctcccc | ctcagctcaa | 2040 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | 2100 |
| aaaaaaaaaa | aaaaaaaaaa |            |             |            |            | 2118 |

<210> 513  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 513  |            |            |            |            |            |     |
| ggcacgaggc | ggagcgaagc | tggataacag | gggaccgatg | atgtggcgac | catcagttct | 60  |
| gctgcttctg | ttgctactga | ggcacggggc | ccaggggaag | ccatccccag | acgcaggccc | 120 |
| tcatggccag | gggaggggtg | accaggcggc | ccccctgagc | gacgctcccc | atgatgacgc | 180 |
| ccacgggaac | ttccagtacg | accatgagg  | tttcctggga | cgggaagtgg | ccaaggaatt | 240 |
| cgaccaactc | accccagagg | aaagccaggc | ccgtctgggg | cggatcgtgg | accgcatgga | 300 |
| ccgcgcgggg | gacggcgacg | gctgggtgtc | gctggccgag | cttcgcgcgt | ggatcgcgca | 360 |
| cacgcagcag | cggcacatac | gggactcggg | gagcgcggcc | tgggacacgt | acgacacgga | 420 |
| ccgcgacggg | cgtgtgggtt | gggaggagct | gcgcaacgcc | acctatggcc | actacgcgcc | 480 |
| cggtgaagaa | tttcatgacg | tggaggatgc | agagacctac | aaaaagatgc | tggctcggga | 540 |
| cgagcggcgt | ttccgggtgg | ccgaccagga | tggggactcg | atggcca    |            | 587 |

<210> 514  
 <211> 1251  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 514   |             |             |             |             |             |      |
| gcccacgcgt  | ccgcccacgc  | gtccggcggt  | gcggagtatg  | gggcgctgat  | ggccatggag  | 60   |
| ggctactggc  | gcttcctggc  | gctgctgggg  | tcggcactgc  | tcgtcggctt  | cctgtcgggtg | 120  |
| atcttcgccc  | tcgtctgggt  | cctccactac  | cgagaggggc  | ttggctggga  | tgggagcga   | 180  |
| ctagagttta  | actggcacc   | agtgtcatg   | gtcaccggct  | tcgtcttcat  | ccagggcac   | 240  |
| gccatcatcg  | tctacagact  | gccgtggacc  | tggaaatgca  | gcaagctcct  | gatgaaatcc  | 300  |
| atccatgcag  | ggttaaagtgc | agttgctgcc  | attcttgcaa  | ttatctctgt  | ggtggccgtg  | 360  |
| tttgagaacc  | acaatgttaa  | catatagcc   | aatatgtaca  | gtctgcacag  | ctgggttgga  | 420  |
| ctgatagctg  | tcatatgcta  | tttgttacag  | cttcctttcag | gtttttcagt  | ctttctgctt  | 480  |
| ccatgggctc  | cgctttctct  | ccgagcattt  | ctcatgccc   | tacatgttta  | ttctggaatt  | 540  |
| gtcatctttg  | gaacagtgat  | tgcaacagca  | cttatgggat  | tgacagagaa  | acgtattttt  | 600  |
| tccttgagag  | atcctgcata  | cagtacattc  | ccgccagaag  | gtgttttcgt  | aaatacgctt  | 660  |
| ggccttctga  | tcctggtgtt  | cggggccctc  | atTTTTTgga  | tagtcaccag  | accgcaatgg  | 720  |
| aaacgtccta  | aggagccaaa  | ttctaccatt  | cttcattcaa  | atggaggcac  | tgaacaggga  | 780  |
| gcaagagggt  | ccatgcagc   | ctactctggc  | aacaacatgg  | acaaatcaga  | ttcagagtta  | 840  |
| aacagtgaag  | tagcagcaag  | gaaaagaaac  | ttagctctgg  | atgaggctgg  | gcagagatct  | 900  |
| accatgtaaa  | atgttgtaga  | gatagagcca  | tataacgtca  | cgttttcaaaa | ctagctctac  | 960  |
| agttttgctt  | ctcctattag  | ccatattgata | attgggctat  | gtagtataa   | tattttacttt | 1020 |
| aatcaciaaag | gatgggtttct | tgaaataaatt | tgtattgatt  | gaggcctatg  | aactgacctg  | 1080 |
| aatttgaaag  | gatgtgatta  | atataaataa  | tagcagatat  | aaattgtggt  | tatgtttacct | 1140 |
| ttatcttggt  | gaggaccaca  | acattagcac  | ggtgccttgt  | gcakaaataga | tactcaatat  | 1200 |
| gtgaatatgt  | gtctactagt  | agttaattgg  | ataaactggc  | agcatccctg  | a           | 1251 |

<210> 515  
 <211> 4412  
 <212> DNA  
 <213> Homo sapiens

<400> 515

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aacattagat  | ctcaatgaaa  | accagaatgg  | aaccctttca  | ctatcataaa  | ctcatttata  | 60   |
| aaagtgccca  | tgatgaatag  | caagaagtac  | ccagtggccc  | atctcatga   | ccaaacttag  | 120  |
| aaagccaagg  | tggggcatct  | gcagctctcc  | cacaatctga  | gtttgtgttg  | atccttgtac  | 180  |
| cccacaacct  | gaaacatctt  | cttatatata  | tcgagcgagc  | tctcagccct  | tctgttttca  | 240  |
| aggccatcat  | ggagaaactg  | gagatgtcca  | agttccagcc  | cactctccta  | acactacccc  | 300  |
| gcatcaaaga  | gactaagcca  | gactatgggg  | gaaagggaga  | taagaaggat  | cctggaactt  | 360  |
| taaagaggga  | aagagtgaga  | ttcagaaatc  | gccaggactg  | gactttaagg  | gacgtcctgt  | 420  |
| gtcagcacaa  | gggactggca  | cacacagaca  | cacgagaccg  | aggagaaact  | gcagacaaat  | 480  |
| ggagatacaa  | agacttagaa  | ggacagctcc  | tttcacctca  | tctacttgt   | ccagaaggta  | 540  |
| aaaagacaca  | gccagaaaga  | aaaggcatcg  | gctcagctct  | cagatcagga  | caggctgtgg  | 600  |
| atctgtggcg  | gtactctgaa  | agctggagct  | gcagcacacc  | ccttttgtat  | tgctcaccct  | 660  |
| cggtaaagag  | agagagggct  | gggagggaaa  | gtagttcatc  | taggaaactg  | tcctgggaac  | 720  |
| caaacttctg  | atttcttttg  | caaccctctg  | cattccatct  | ctatgagcca  | ccattggatt  | 780  |
| acacaatgac  | atggagaatg  | ggaccccggt  | tcactatgct  | gttggccatg  | tggtaagtgt  | 840  |
| gtggatcaga  | accccacccc  | catgccacta  | ttagaggcag  | ccacggagga  | cggaaagtgc  | 900  |
| ctttggtttc  | tccggacagc  | agtaggccag  | ctcggttct   | gaggcacact  | gggaggtctc  | 960  |
| gcggaattga  | gagatccact  | ctggagggaac | caaaccttca  | gcctctccag  | agaaggagga  | 1020 |
| gtgtgcccg   | gttgagacta  | gctcgcccaa  | cagagccgcc  | agcccgtctg  | gacatcaatg  | 1080 |
| gggcccgcgt  | gagacctgag  | caaagaccag  | cagccagggg  | ctctccgcgt  | gagatgatca  | 1140 |
| gagatgagg   | gtcctcagct  | cggtaagaa   | tggtgcgttt  | cccttcgggg  | tccagctctc  | 1200 |
| ccaacatctt  | tgccagcttt  | gcagggaaga  | acagagtatg  | ggtcatctca  | gcccctcatg  | 1260 |
| cctcggaagg  | ctactaccgc  | ctcatgatga  | gcctgctgaa  | ggacgatgtg  | tactgtgagc  | 1320 |
| tggcggagag  | gcacatccaa  | cagattgtgc  | tcttccacca  | ggcaggtgag  | gaaggaggca  | 1380 |
| aggtgagaag  | gatcaccagc  | gagggccaga  | tccaggagca  | gcccctggac  | cctagcctca  | 1440 |
| tccctaagct  | gatgagcttc  | ctgaagctgg  | agaagggcaa  | gtttggcatg  | gtgctgctga  | 1500 |
| agaagacgct  | gcaggtggag  | gagcgctatc  | catatcccgt  | taggctggaa  | gccatgtacg  | 1560 |
| aggtcatcga  | ccaaggcccc  | atccgtagga  | tcgagaagat  | caggcagaag  | ggctttgtcc  | 1620 |
| agaaatgtaa  | ggcctctggt  | gtagagggcc  | aggtggtggc  | ggaggggaat  | gacggtggag  | 1680 |
| ggggagagag  | aaggccagag  | atgggcagaa  | agaagaaaga  | agaggacca   | aggagagcac  | 1740 |
| aagtcaccac  | aaccagagag  | agtcggtga   | aggtcctgag  | aaaactggcc  | gccactgcac  | 1800 |
| cagctttgcc  | ccaacctccc  | tcaaccccca  | gagccaccac  | ccttctcctc  | gccccagcca  | 1860 |
| caacagtgc   | tcgggtccacg | tcccggggcg  | taacagttgc  | tgcaagacct  | atgaccacca  | 1920 |
| ctgcctttcc  | caccacgcag  | aggccctgga  | ccccctcacc  | ctcccacagg  | ccccacaa    | 1980 |
| ccactgaggt  | gatcactgcc  | aggagaccct  | cagtttcaga  | gaatctttac  | cctccatccc  | 2040 |
| ggaaggatca  | gcacaggag   | aggccacaga  | caaccaggag  | gcccagcaag  | gccaccagct  | 2100 |
| tggagagctt  | cacaaatgcc  | cctcccacca  | ccatctcaga  | acccagcaca  | agggtgctg   | 2160 |
| gcccaggccg  | tttccgggac  | aaccgcattg  | acaggcggga  | acatggccac  | cgagacccaa  | 2220 |
| atgtggtgcc  | aggtcctccc  | aagccagcaa  | aggagaaacc  | tcccaaaaag  | aaggcccagg  | 2280 |
| acaaaattct  | tagtaatgag  | tatgaggaga  | agtatgacct  | cagccggcct  | actgcctctc  | 2340 |
| agctggagga  | cgagctgcag  | gtggggaatg  | ttccccttaa  | aaaagcaaagg | agtctaaaa   | 2400 |
| agcatgaaaa  | gcttgagaaa  | ccagagaagg  | agaagaaaaa  | aaagatgaag  | aatgagaacg  | 2460 |
| cagacaagtt  | acttaagagt  | gaaaagcaaa  | tgaagaagtc  | tgagaaaaag  | agcaagcaag  | 2520 |
| agaaaagaaa  | gagcaagaag  | aaaaaaggag  | gtaaaacaga  | acaggatggc  | tatcagaaac  | 2580 |
| ccaccaacaa  | acacttcacg  | cagagtccca  | agaagtcagt  | ggccgacctg  | ctggggctct  | 2640 |
| ttgaaggcaa  | acgaagactc  | cttctgatca  | ctgctcccaa  | ggctgagaac  | aatatgtatg  | 2700 |
| tgcaacaacg  | tgatgaatat  | ctggaaagtt  | tctgcaagat  | ggctaccagg  | aaaatctctg  | 2760 |
| tgatcaccat  | cttcggccct  | gtcaacaaca  | gcaccatgaa  | aatcggccac  | tttcagctag  | 2820 |
| ataatgagaa  | gcccattgca  | gtggtggatg  | atgaagactt  | ggtagaccag  | cgtctcatca  | 2880 |
| gcgagctgag  | gaaagagtac  | ggaatgacct  | acaatgacct  | cttcatggtg  | ctaacagatg  | 2940 |
| tggatctgag  | tttcaagcaa  | tactatgagg  | taccaataac  | aatgaagtct  | gtgtttgatc  | 3000 |
| tgatcgatac  | attccagctc  | cgaatcaaa   | atatggagaa  | gcagaagaag  | gagggtcattg | 3060 |
| tttgcaaaaga | ggacaaaaag  | cagtcctctg  | agaacttctc  | atccaggttc  | cgggtggagga | 3120 |
| ggaggttgct  | ggtgatctct  | gctcctaacg  | atgaagactg  | ggcctattca  | cagcagctct  | 3180 |
| ctgccctcag  | tggtcaggcg  | tgcaattttg  | gtctgcgccac | cataaccatt  | ctgaagcttt  | 3240 |
| taggcgttgg  | agaggaagtt  | gggggagtg   | tagaactggt  | cccaattaat  | gggagctctg  | 3300 |
| ttgttgagcg  | agaagacgta  | ccagcccatt  | tggtgaaaga  | cattcgtaac  | tattttcaag  | 3360 |

|            |            |             |                        |            |             |      |
|------------|------------|-------------|------------------------|------------|-------------|------|
| tgagcccgga | gtacttctcc | atgcttctag  | tcggaaga               | cggaatgtc  | aaatcctggt  | 3420 |
| atccttcccc | aatgtggtcc | atggtgattg  | tgtacgattt             | aattgattcg | atgcaacttc  | 3480 |
| ggagacagga | aatggcgatt | cagcagtcac  | tggggatgcg             | ctgcccagaa | gatgagtatg  | 3540 |
| caggctatgg | ttaccatagt | taccaccaag  | gataccagga             | tggttaccag | gatgactacc  | 3600 |
| gtcatcatga | gagttatcac | catggatacc  | ctt <del>a</del> tgagc | agaaatatgt | aaccttagac  | 3660 |
| tcagccagtt | tcctctgcag | ctgctaaaaac | tacatgtggc             | cagctccatt | cttccacact  | 3720 |
| gcgtactaca | tttcttgcc  | ttttctttca  | gtgtttttct             | aagactaaat | aaatagcaaa  | 3780 |
| ctttcaccta | ttcatgagtt | attattgaaa  | cctcaaatca             | taaagacatt | taaaagaatt  | 3840 |
| gtttttctaa | ctggaggggc | tctagtgcata | aataatagta             | ctgaaaattg | atattatttt  | 3900 |
| ccttttctta | tatgaaggac | cttatttggc  | atataaaatt             | ttataaaata | tgtattttaa  | 3960 |
| gctttttctt | attttttgta | ttaattggta  | agtgaaaact             | ctgttaaaga | tcacaccaca  | 4020 |
| atgttttcaa | gaaacatctg | aaaagataa   | acaaagaaca             | aataacttat | aataacttact | 4080 |
| taaattgaca | ctttttgaaa | tgccagctctg | aaaataatta             | agatatctct | gctttgtatg  | 4140 |
| agtttctttt | atgaaacttg | ataccacggg  | agtccagtaa             | tattggccac | aaaagccaga  | 4200 |
| gaaagtacca | agcccagctt | tgttatcata  | gccacttctt             | gccctgcttc | tggtattttt  | 4260 |
| agtgtttttt | cagatataaa | tcgggggtcca | ggaaatcctc             | accagaatct | ggcactgcag  | 4320 |
| ccaaaggcga | tacttccaga | gttctagtag  | gctgctatgg             | aatttctggc | atgaaaaattc | 4380 |
| ttgaccctc  | acactttacc | ccctgtacag  | ca                     |            |             | 4412 |

<210> 516

<211> 969

<212> DNA

<213> Homo sapiens

<400> 516

|            |             |                        |             |             |                         |     |
|------------|-------------|------------------------|-------------|-------------|-------------------------|-----|
| ggcacgagta | gcagcgtggc  | ttccctggct             | cctctctgca  | tccttcccga  | ccttcccagc              | 60  |
| aatatgcctc | ttgcacgtct  | ggtcggtccc             | tgtccctccc  | ttctgctact  | ggggggccctg             | 120 |
| tctggatggg | cggccagcga  | tgaccccat              | gagaagggtca | ttgaagggat  | caaccgaggg              | 180 |
| ctgagcaatg | cagagagaga  | ggtgggcaag             | gccctggatg  | gcatcaacag  | tggaatcacg              | 240 |
| catgccggaa | gggaagtggg  | gaaggttttc             | aacggactta  | gcaacatggg  | gagccacacc              | 300 |
| ggcaaggagt | tggaacaaagg | cgtccagggg             | ctcaaccacg  | gcatggacaa  | ggttgcccat              | 360 |
| gagatcaacc | atggtatttg  | ac <del>a</del> gcagga | aaggaagcag  | agaagcttgg  | ccatgggggtc             | 420 |
| aacaacgctg | ctggacaggc  | cggaaggaa              | gcagacaaag  | cggtccaagg  | gttccacact              | 480 |
| ggggtccacc | aggctgggaa  | ggaagcagag             | aaacttggcc  | aaggggtcaa  | ccatgctgct              | 540 |
| gaccaggctg | gaaaggaagt  | ggagaagctt             | ggccaagggtg | cccaccatgc  | tgt <del>g</del> ggccag | 600 |
| gccgggaag  | agctgcagaa  | tgctcataat             | gggggtcaacc | aagccagcaa  | ggaggccaac              | 660 |
| cagctgctga | atggcaacca  | tcaaagcgga             | tcttccagcc  | atcaaggagg  | ggccacaacc              | 720 |
| acgccgttag | cctctggggc  | ctcgggtcaac            | acgcctttca  | tcaaccttcc  | cgcctgtggt              | 780 |
| aggagcgtcg | ccaacatcat  | gccctaaact             | ggcatccggc  | cttgctggga  | gaataatgtc              | 840 |
| gccgttgtca | catcagctga  | catgacctgg             | aggggttggg  | ggtggggggac | aggtttctga              | 900 |
| aatccctgaa | gggggttgta  | ctgggatttg             | tgaataaact  | tgatacacta  | aaaaaaaaaa              | 960 |
| aaaaaaaaaa |             |                        |             |             |                         | 969 |

<210> 517

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 517

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| tctcagtggg | cagaggctgt | gttggaccca | tagtagaatt | ttccagtcac | agaccaagc   | 60  |
| ttccatgggt | tgttactgtg | ctgtaccact | tgggtggtct | gattctgaac | ctgatgtgtg  | 120 |
| tgtaatttat | attttaagca | acacacacac | acacacacgc | ctcatgtaat | ggacttttat  | 180 |
| aacaaaagaa | aaaatttgga | tttctaattt | acaaatggca | aattatttat | ccctctctgg  | 240 |
| atgcacaaaa | gaccagtaaa | gtttatagct | tttccatcta | tatttataaa | gcaataactgt | 300 |
| attataaaaa | tcaatatttt | tatcacatgc | ttgaaatttt | tattttgtg  | ttttaaaatg  | 360 |
| tgactcttaa | acatatcaga | accttatttc | ttcctatgaa | cttaagctgc | ctgcgcacaa  | 420 |
| aaaaaaaaaa | aatttaccaa | atggagatgc | agtagagtcc | ataggctcta | aaaactaaaa  | 480 |

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| gaaatgggat  | gcagggggaa  | caagttat   | gtcctgagtt | actgtacttg  | cttgacatgg  | 540  |
| ttgttgggta  | ctaaatcaca  | aaagaatcca | ttccaggtat | gcatgtctgg  | gggttgggct  | 600  |
| gtgtctagat  | tagaaactgg  | gtttcaagct | ttgcatgatg | ggagagcgtc  | ctctcctcta  | 660  |
| tcagctgcgt  | gtgttctgga  | taggacagta | gcccggagat | ggaaaccacc  | ttcagtacca  | 720  |
| ttagcccacc  | ataccaagta  | acaagttagg | caggaatcgt | ggaatttat   | tgagtcagct  | 780  |
| ttgagtgttt  | gagagaatgt  | aaacaagatt | ggctcgaatt | gtaaactgtt  | gtactttgga  | 840  |
| tgagttcatg  | gttcttttagg | tcaccttaat | accagctatc | tttggtagaa  | gctacagcat  | 900  |
| tcagtttctc  | tggaactgt   | atcacatttt | tgcattttta | aaattttaca  | gtatcaaaaa  | 960  |
| acaaaaatct  | gcttatgaaa  | caaaacatga | agcaggacat | atttggaattc | tattttattta | 1020 |
| aaattaaatt  | ctttgcaaaa  | ttgaacttct | caactaaaac | gtgtccatgt  | cagaatttta  | 1080 |
| actgttagca  | ggtagtttgt  | ggcaaagatg | gctaaataat | gaagcaaatt  | agaatctgtg  | 1140 |
| tgtatactaa  | tgagctgctt  | tttttctgtt | gagactaca  | ttatttgtct  | tattacccaa  | 1200 |
| gaggcaatta  | cctgaatttg  | gatgtctgaa | ttataactta | tgcaggaata  | gttctgtaaa  | 1260 |
| tacattttaa  | taaactgtaa  | agatatttaa | taaatatagt | atttatacta  | aaaaaaaaaa  | 1320 |
| aaaaaaaaact | cgag        |            |            |             |             | 1334 |

<210> 518  
 <211> 1476  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (69)..(69)  
 <223> n equals a,t,g, or c

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 518  |             |             |            |             |             |      |
| ncctatttct | gcttactgtg  | ttaccagaga  | gcctgggggt | ctggatccta  | tctggccccg  | 60   |
| tcagggtgna | ttgccaaatg  | agcagttctc  | ttgccccagt | ccctttcctg  | tgctataaat  | 120  |
| aagccccatg | tttattttct  | tatgttattg  | aaatgagcac | ttgtgatttg  | ggcctctttt  | 180  |
| gaggagtcca | gagagcgctc  | atccggtgcc  | tggtgagggc | cctgcatggc  | tggtgctgtg  | 240  |
| gtgaagctat | ttggagtcct  | ctccctgtgt  | tttctatgtg | gcttaatttc  | aatagaaaagg | 300  |
| gttatatgca | accctgtatc  | tgctgatttt  | caggtttcaa | ctttctgcca  | gcgtcactgc  | 360  |
| ctgcttagaa | gtaaagttat  | gtttctcatt  | aaggggataa | cagccacaat  | tgaggtaatt  | 420  |
| aacgaaaatt | gtacattggg  | ggcagcacct  | cctataggat | ttccaatagt  | ctttctctag  | 480  |
| tagatcattg | ggggctcacc  | ttgatctcct  | ctcttctgtc | taccctgcac  | caaaatacct  | 540  |
| tgctcctgtt | tctggatata  | gttccaataa  | tttttttcc  | aacagccttt  | ttgtcaccag  | 600  |
| ttggtttgat | atcttacaac  | ttggccaaat  | gagggttcca | ttaactccat  | cttgtcta    | 660  |
| gcatggagaa | ttcaaggatt  | ttttttttcc  | tcttttcata | gcaccttcca  | gttgccagtt  | 720  |
| gtaccctggc | ccttctttgg  | aagtcataat  | gatgaatata | cattaataag  | agattgatgc  | 780  |
| tctttcaact | ctcatgtcat  | ctataccatc  | tcagtggaga | ggatgacttt  | ggatgaggtt  | 840  |
| ggaatagaaa | ggaaacattt  | ggaagccac   | tgcagtgtat | tatatgctgt  | gtggaagtct  | 900  |
| gggggttagg | aaatacctgg  | agggagaact  | tcctaagaaa | tgatttttgg  | ttcttttagg  | 960  |
| ccttaacagc | acaataaaaag | tatcccatga  | gaccattatg | agcaggacac  | gacattgttt  | 1020 |
| cacaccttgg | gctgtgacta  | tttacttctc  | ggtacagatt | actctgggta  | aatcatcag   | 1080 |
| taaagaaatc | ttttcatgct  | cacaatctga  | acctgaaggc | tattactgaa  | gagaattgca  | 1140 |
| tctgacaaca | aaatttaatt  | tacttccaga  | gaaaggacca | gaagaaaagta | aattttcatt  | 1200 |
| tatgttttta | agtctattgt  | cttaaaaaaga | ttcttttccc | ttaaaaaata  | aaaaaacctg  | 1260 |
| atgtgatggg | ttccttcagt  | caacaaatac  | ttattgagca | gttattgtgt  | gccagatact  | 1320 |
| gttcttggtg | tgaggatata  | gactgaaca   | aaacaatgta | cctactttcg  | tcaagcttac  | 1380 |
| attctagtga | ggaagataac  | caaaacaagt  | gactgaatat | aatttcaa    | gtcaataaat  | 1440 |
| gctgtgaaga | aaataaaagca | gagtattata  | tgtaaa     |             |             | 1476 |

<210> 519  
 <211> 2126  
 <212> DNA  
 <213> Homo sapiens

<400> 519  
 ggcacgagtt gctaagttga ttaaagggttg gtcttccact ctgccactgg ccacagcaca 60  
 aagtgaaaac agatgtcaca agcaccttgt agatctgtcc cttttttctt ctgatgttca 120  
 cctccttttt gagctctttt tttctccaac attgcttaca aaataatctt tatgcatctg 180  
 agagggagca aatattcagt aactttctgc agctgtcctc actaaagagg agaactctgtt 240  
 gaatgccact ggaaatgtaa ggatctcttg tgacagtaac atctcaaggg gaaactagtg 300  
 gttaaattgt taattctttg agtctgaaac ttttttcatt tgcagtgcagataagtgctt 360  
 gatcttgacg tatcacgttt ctgacttctt tgttctggct tcattttttt tttcccaaaa 420  
 tgccattttc atttgttctt agagttcaga acatgtcaaa gagcttcttt aagcagtagg 480  
 tggttttaca gagcccacag agaaggaaaa ctaaatatca tcccggatgc agtccactac 540  
 gactgtggag gactcagatt actctccggg ctttgctgtg tctgcttggtg aaacaggaaa 600  
 gggagaactg aggcaatgag tcacctcact tgggcccaca gcaccaccta cgttgaatat 660  
 ggagaaaatg tgaagcaaga gtttcttttt atacataatc accatttgta cataatcacc 720  
 attttctcca tggttcttat ccaattcagt gcatcttaaa ggaagggttg tggaaatcatg 780  
 acatagcaga aaaatccagg tactatcagt cttgcctgtt tctacctaac tctttcattt 840  
 aaactctcac tagaatctat aggaactgtt agcatcaatt ttaataagtt gtcaactaag 900  
 tgattagtgg tatttatttg ttatttttga caaaaataatg gaatcatcaa attttgaagt 960  
 tgagaagtaa agtaaaaatt tgtgccaaac cccaaatgta gacaaggta tattataaac 1020  
 attaatgctg tcccaactg ccaatgcatt gcgtagaact gaggttagca ggttaccatt 1080  
 gatttctctt acttatgctt taagaggttg gcattggtta gccgctacac tttcttgggtc 1140  
 aatgaggcag aaaccctttt gcaaaactct caactgatg aaagattagc tagaatgact 1200  
 ctaggaaactg ttttctaagg atctgactca ttgattcctt tttttggtag ggttctctgg 1260  
 gccaaagttag ttcgagtatt tatcatttaa attaggatat taccatcacc atcatcatgt 1320  
 acattcataa atcaaaagcaa gattagagaa ggaatatggt ggatcacaga gcaactcaga 1380  
 aagacgacag caacaactag gaaatgaaac accatgggtg tatttcagga accctaccca 1440  
 gcagatagga attaccatag ctccataaaat tccatctggg tgggtgatgg agcctcaatt 1500  
 aatctgacac catagcccat gctcccctct tgctacctgc tgaagttagc agggaaaagt 1560  
 caaagagggg gctgtcagtg ggggtcaattc ttgggatca tagtgaacca cctccattg 1620  
 cactgactct ttcccacaaa atgggctaga gatagcagct ctcccttatgt atttaagaaa 1680  
 gaatggtcaa aaaatacaat tcacatttta ttctggtata taccattttg acagtgtttc 1740  
 acaatttagg taatatgaat gggagtattt aaacacaatc ctgtttaata ttcttagcca 1800  
 gtacttatta aatgcctacc aagcctggca ttgttctaga gacctcaaaa tacaccttta 1860  
 aaaacatatt ttattgacag ttgtataaat gaagaaaaca agtctcagaa aattaaagtg 1920  
 acttgacag atacacaagc tagaaagtaa taaaactgaa ttttgaaccc aggtttgtca 1980  
 gactctaaag tccatgattt tctgctcat gtggccaacc cagttagaaa ggttataaaa 2040  
 aatcttaaca gtttttcagc ccttctcaca cttagcttta ggattaaaag tattgggtcat 2100  
 gatttgcaaa aaaaaaaaaa aaaaaa 2126

<210> 520  
 <211> 1370  
 <212> DNA  
 <213> Homo sapiens

<400> 520  
 cagcatcagc agtgtgatgg tacaccaaga aggggctgtt gatataaatt tttttaaaat 60  
 attggtatag ttaaatactt atatttttaa atattgggtg gtttttgggt gctataaatt 120  
 actaacttgt gtgttcctaa aatcaagttg aaactaggat aattgtctag ttcttgcttt 180  
 gataagaacg cagtagttct gatgctgtg tccatgtgta tgggtctgtt attcttgcaa 240  
 gtgggtaagc aatgcatagc ttttttttat actgagagca ctagaaggcc aaagcatctc 300  
 aaaaccatgg gttctgggta tgcataattt ttggaaaggc acgataagca aatctcacag 360  
 tctggctggt cagcagctgc agggataagg agactaattg ccaaggccat gcaaatgaa 420

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| agaggaaggt | gaggaggatt | cccagatgtg | atcatagctt  | gcaaagatgg | tcattctcatg | 480  |
| gggccagaat | tcgtgcatgc | ccacacctac | aaagctgaga  | actggtagtg | gtcatgtgtc  | 540  |
| cgcttcaagc | aatgcatgta | ttcacagccg | ccagcatcaa  | gaggggccat | cttttgatag  | 600  |
| gatgacacat | gcatgttcaa | acatatttta | aaagattagg  | gagaaaagaa | tactgtgaac  | 660  |
| aaatagaacc | caattatgag | caaattcacg | aattcgggta  | tgtactattg | tggtctggcaa | 720  |
| aagccactta | aactaggctc | tctagcctga | ttttcagcca  | tcattacccc | tcactaagaa  | 780  |
| tccttgtaaa | atttcttccg | taaaagttaa | ttacactcat  | caccactgtt | tgtaatggg   | 840  |
| agcaaacc   | tagccaatat | tttttagaat | aatatgggtg  | ggataacttt | tttttttttt  | 900  |
| ttttgctaaa | tgaatgcatg | attatcttat | acaataaaaag | tataacacaa | aatactgttt  | 960  |
| taagatagtc | gctgggactc | tccttaccct | tgaagtgtcc  | ccctttccct | cctccacatc  | 1020 |
| cagtcaaccg | caggttcttc | ccaggtttac | tatctgacat  | gttttagctc | tcttcttctt  | 1080 |
| tttccattcc | tctacaactt | ctctagttct | ggctttcatt  | gtttctcaac | caaacagtc   | 1140 |
| tccccttctc | tctcctccat | tcttgcgctc | ttccaaaaca  | tcctctccac | cctgccagag  | 1200 |
| cagctcacct | tagtcacagt | ctgactgcaa | ctgcatgtgc  | ttatcaacc  | tctcatttct  | 1260 |
| cctcatcacc | tataacagtg | cttttgacgc | tgaacttgt   | gagccatttc | gogggttaga  | 1320 |
| aaataagttt | catgggttgt | aaccagtagt | ttaaaaaaa   | aaaaaaaaa  |             | 1370 |

<210> 521  
 <211> 1397  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1383)..(1383)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1396)..(1396)  
 <223> n equals a,t,g, or c

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| <400> 521   |             |            |             |            |             |      |
| ggtccctagg  | agttgagcag  | gaacaggcat | ctgtgggttta | cggcgacctg | gctctccgcr  | 60   |
| ggccacgtgg  | gtggtgaggg  | cacacgagtg | ggaagcgca   | ccgacgtggt | tctccccgac  | 120  |
| cgtggctttg  | ccaaagactt  | ttaatagcat | tttttaagtg  | caaaacgtct | aggtaaaaaat | 180  |
| ctttatcatc  | agtgaccaaa  | ttagaatgta | tttaatatag  | taggtgggtt | aagaactgtt  | 240  |
| ttaacgtaag  | acaaactgat  | agcaacattc | tgttggttta  | aaggaagtgg | gtccgtgaca  | 300  |
| ttctgcagct  | agtcactac   | tccaaggtaa | ctatcgactt  | ggtttcagtg | aatctatttt  | 360  |
| gtttttaact  | acagtgattt  | attagctcag | tatctagaaa  | ttacgtatat | tttgtgtctac | 420  |
| tgtcatcgat  | gtgtaaaactc | tgtttttatt | tgtatttatg  | cacttggttc | ccatttggag  | 480  |
| cctctgggtc  | tttctgggat  | aagtgggtgc | tgccgagaca  | tctcccggtt | gtcagtggtc  | 540  |
| aggagcagct  | gagctctagt  | ctgccagctg | ctctgctctt  | tctgggaagg | aggtggcgcc  | 600  |
| cgccccctcag | ggtgtctcca  | gggctcagct | tccgggggtg  | tagagctggg | gagccccagg  | 660  |
| ggtgggggga  | cagctgggag  | atggaggtgg | cacctgctcc  | cctagatcag | tactggctct  | 720  |
| gaggacaggt  | gagcagtggg  | aagaccaaag | aatggctggc  | agcgtgcca  | rggttgga    | 780  |
| tgggggcaag  | atcctggggc  | tgtgtgccct | ggggcctccc  | tcacctgtct | tggtggccat  | 840  |
| ggcctcaggg  | atggctccta  | ggtggctgag | gcacagcagt  | ggctggaagg | tgccccgtgg  | 900  |
| aggctgaggt  | ggaggcgcg   | ccagcagctc | ccccctgtgg  | ccatggcggg | cacgggscgt  | 960  |
| aggagctggc  | tggcgccgg   | ctctgcatgt | tcttggtgcc  | tgtcgtctgt | aactctagt   | 1020 |
| ttcgacattc  | gccgtgatac  | agtgggtgtc | cgacgtgtgt  | aactgtggtc | agcagacctt  | 1080 |
| gttccgcgtg  | gacgcctcaa  | gtggattaat | ttctggaagc  | ctcaatctgt | atgtttagt   | 1140 |
| atttacatga  | gaatgttatt  | tgaatggaat | tttcttaacc  | cagaaggtag | tatttataat  | 1200 |
| catttacttg  | tagcgaactg  | tttaaagtta | acacttggtt  | aaattttttt | acactatagc  | 1260 |
| atttatgcaa  | tggtttacag  | aattcatgga | gttattttta  | tcagtatggg | aattaattaa  | 1320 |
| aaccttgaat  | cttaaaaaaa  | aaaaaaaaag | ggcgccgct   | ctagaggatc | caagcttacg  | 1380 |
| tangcgtgca  | tgcgana     |            |             |            |             | 1397 |

<210> 522  
 <211> 931  
 <212> DNA  
 <213> Homo sapiens

<400> 522  
 ggcacgagcg gccgcgggac atccacgggg cgcgagtgc acgcgggagg gagagcgtg 60  
 ttctgtctgga gccgatgcca aaaacccatgc atttcttatt cagattcatt gttttctttt 120  
 atctgtgggg cttttttact gctcagagac aaaagaaaga ggagagcacc gaagaagtga 180  
 aaatagaagt ttgtcatcgt ccagaaaact gctctaagac aagcaagaag ggagacctac 240  
 taaatgcca ttatgacggc tacctggcta aagacggctc gaaattctac tgcagccgga 300  
 cacaaaatga aggccacccc aaatggtttg ttcttgggtg tgggcaagtc ataaaaggcc 360  
 tagacattgc tatgacagat atgtgccctg gagaaaagcg aaaagtagtt atacccctt 420  
 catttgcata cggaaggaa ggctatgcag aaggcaagat tccaccgat gtacattga 480  
 tttttgagat tgaactttat gctgtgacca aaggaccacg gagcattgag acatttaaac 540  
 aaatagacat ggacaatgac aggcagctct ctaaagccga gataaacctc tacttgcaaa 600  
 ggggaatttga aaaagatgag aagccacgtg acaagtcata tcaggatgca gttttagaag 660  
 atatttttaa gaagaatgac catgatgggtg atggcttcac ttctccaag gaatacaatg 720  
 tataccaaca cgatgaacta tagcatatct gtatttctac ttttttttt tagctattta 780  
 ctgtacttta tgtataaaac aaagtcactt ttctccaagt tgtatttgct atttttcccc 840  
 tatgagaaga tattttgatc tccccaatac attgattttg gtataaaaa tgtgaggctg 900  
 ttttgcaaac ttaaaaaaaa aaaaaaaaaa a 931

<210> 523  
 <211> 1044  
 <212> DNA  
 <213> Homo sapiens

<400> 523  
 ggattttcag agacaaaggc ccaagttagg agacgtaatt actcagtgc ttgaaggagc 60  
 atccaagggtg ctactctta gccatagccg ttggtttcct ggatgctgac tgtgaagatt 120  
 ctaaagtgtc tcttaggggtg ggcggtggtg gcaggaggcc ttggacggag tcaggccaga 180  
 cccagcctcc tgtttaatat gctgagccca agcgtccctc agatgcgaat ccaacagcct 240  
 tgggtgagttg taagatttca tggaaaacttt cctgacttc tgtctcccc ttgctcccca 300  
 ttacctggga aaggcagctt tgtgggcat gtgtcccga agggcctggg ctggctgtgg 360  
 cccagtgtc aggaccagcc atcttggccc tcacagcgcc ctgccagtt ggtgtaatat 420  
 ttgtyttcaa gccattgttg gagcaggcag gcaaagggg ctttctgagg atccaacgtg 480  
 tgccagccac tgggatacaa agacaggcct gggttcctagc tgtggggctg ggaagggtat 540  
 ctgacatcaa tgggtggcacc tggcagagga cacacagaca acagcaggca gcatggactt 600  
 ttatgtttgt agcttgagct ggttttaatt ggaagctctg tgatttacat aatcacttac 660  
 aatctctgta aataaggaac tatttatgag gaattgtaattttcctctct ccccttctt 720  
 accctgtctg tgatcttgtc tgtgatgcag taatgatatt ccactctagg ttcccatgat 780  
 cagtgggtgaa atatatgat ttccacctgt gcttccattc tgaagttctg gaaagaagta 840  
 ctggatggac tgaagtccag gacaacgtyc caaagaaaag cagagtccag gtaggcttgg 900  
 aggaccaagc cctggatgag cactggaggg cagaggcctc agtgtccagc actgtgccct 960  
 gcacatggaa agcccctacg tttgtggaat gaatgaataa taaaaatgtt ttcataagtg 1020  
 aaaaaaaaaa aaaaaaaact cgag 1044

<210> 524  
 <211> 1143  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc feature  
 <222> (1100)..(1100)



<223> n equals a,t,g, or c

<400> 524

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcaccgagg  | ctgggggtcag | caaataataca | ggggggccgag | gcgtcacgtg  | ggccccatcc  | 60   |
| tcagcagcag  | tgccctcgat  | atcttctgcg  | acaatgagaa  | tgggcctaac  | ttccttttcc  | 102  |
| acaaccgggg  | cgatggcacc  | tttgtggacg  | ctgcggccag  | tgctgggtgtg | gacgaccccc  | 180  |
| accagcatgg  | gcgagggtgtc | gccctgggtg  | acttcaaccg  | tgatggcaaa  | gtggacatcg  | 240  |
| tctatggcaa  | ctggaatggc  | ccccaccgcc  | tctatctgca  | gatgagcacc  | catgggaagg  | 300  |
| tccgcttccg  | gggacatcgc  | cttcaccca   | gttctccatg  | ccctcccctg  | ttccgcacgg  | 360  |
| tcatcaccgg  | ccgacttttg  | caatgaccag  | gagctggaga  | atcttcttca  | acaacattgc  | 420  |
| ctaccgcagc  | tcctcagcca  | accgcctctt  | ccgcgtcatc  | cgtagagagc  | acggagaccc  | 480  |
| cctcatcgag  | gagctcaatc  | ccggcgacgc  | cttggagcct  | gagggccggg  | gcacaggggg  | 540  |
| tgtgggtgacc | gacttcgacg  | gagacgggat  | gctggacctc  | atcttgtccc  | atggagagtc  | 600  |
| catgggtcaa  | ccgctgtccg  | tcttccgggg  | caatcagggc  | ttcaacaaca  | actgggtgcg  | 660  |
| agtgggtgcca | cgcacccggg  | ttggggcctt  | tgccagggga  | gctaaggtcg  | tgctctacac  | 720  |
| caagaagagt  | ggggcccacc  | tgaggatcat  | cgacgggggc  | tcaggctacc  | tgtgtgagat  | 780  |
| ggagcccggtg | gcacactttg  | gcctggggaa  | ggatgaagcc  | agcagtgtgg  | aggtgacgtg  | 840  |
| gccagatggc  | aagatggtga  | gccggaacgt  | ggccagcggg  | gagatgaact  | cagtgtctgga | 900  |
| gatectctac  | ccccgggatg  | aggacacact  | tcaggaccca  | gccccactgg  | agtgggcca   | 960  |
| aggattctcc  | cagcaggaaa  | atggccattg  | catggacacc  | aatgaatgca  | tccagttccc  | 1020 |
| attcgtgtgc  | cctcgagaca  | agcccgtatg  | tgtcaacacc  | tatggaagct  | acaggtgccg  | 1080 |
| gaccaacaag  | aagtgcagtn  | cggggctacg  | agtcccaacg  | aggatggcac  | atacgggctt  | 1140 |
| gtc         |             |             |             |             |             | 1143 |

<210> 525

<211> 791

<212> DNA

<213> Homo sapiens

<400> 525

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| ggcaccgagct | gcatttgcac  | tcatttctta  | gtccaatgta  | agtaagagta  | aaacaatgac  | 60  |
| atttaaggcc  | accaggctat  | tctcattttt  | ggaaaaatgc  | tggattacat  | tacagcata   | 120 |
| ttaaatgaga  | atatcaaggt  | gtaatatctc  | cctagaaatt  | gtctcacctt  | caatactatt  | 180 |
| gacatttttg  | gacctgataa  | ttttgtttgt  | ggctctagcc  | tcattgttata | ggaggtttac  | 240 |
| cagtttttct  | gccctaaact  | taccggatgt  | gaatagcaca  | ctccactacc  | tacagcagta  | 300 |
| aaaactaaaa  | ttgtctctaa  | acattgacaa  | attgtccctg  | gtagtgaaaa  | tcacccctgg  | 360 |
| ttgagaccgt  | gttgttgaaa  | ataaaacaaa  | aactttcaca  | tcaataaata  | tgtaggtgtg  | 420 |
| tgtatgttaa  | ggattaacat  | taagacaata  | tggagcaagc  | actacatgaa  | agcagtgcag  | 480 |
| attgggggaat | tagtggcaca  | ttatccta    | agttaatata  | gtgactgta   | tattctaaata | 540 |
| tcatactata  | gagtttttct  | tagatttttt  | cattagtata  | acaggatgtt  | gtgtatgtta  | 600 |
| cactgtatat  | actgttattt  | tgagagacaa  | ttttgggaat  | tttgccaagg  | tattttcaat  | 660 |
| tatagggtct  | taatacatct  | taagcaagtg  | ggctctcaaaa | atgggaattt  | tacacccac   | 720 |
| attcttcttc  | ccatccgggtg | gacattttgtc | aatgtgcgca  | aatatttctg  | attaaaaaaa  | 780 |
| aaaaaaaaaa  | a           |             |             |             |             | 791 |

<210> 526

<211> 2425

<212> DNA

<213> Homo sapiens

<400> 526

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| cgctgccgat  | cgccgggagg  | acccccgcct  | cgccgaagac | gggcgggga  | agccgagcct | 60  |
| cacgggggtcc | ccggagctgg  | gccgggcctc  | cagatggaga | aggcgcaacg | gggagttctt | 120 |
| gagtaagcca  | gagcgggtgtc | cagcgcgggtg | tagccgcagc | cgccgctgtc | aggcgcagca | 180 |
| acggacaacc  | ccgtagaagt  | cggtcggcag  | gtcctctcca | acccgccgct | accgcgccgc | 240 |
| tgtgggagag  | acccagcag   | gagcccaagg  | gcagctacgg | gggcgcgaag | gccgctggcg | 300 |
| ccgcctcggc  | cagcccttcc  | cgcgcggttc  | cactgcctta | aggatgacag | tcgtagggaa | 360 |

|            |            |             |            |             |            |      |
|------------|------------|-------------|------------|-------------|------------|------|
| ccctcgaagt | tggagctgcc | agtgggttgcc | aatcctgata | ctgttgctgg  | gcacaggcca | 420  |
| tgggccaggg | gtggaaggcg | tgacacacta  | caaggccggc | gacctgtta   | ttctgtatgt | 480  |
| caacaaagtg | ggaccctacc | ataaccctca  | ggaaacttac | cactactatc  | agcttccagt | 540  |
| ctgctgccct | gagaagatac | gtcacaaaag  | ccttagcctg | ggtgaagtgc  | tggatgggga | 600  |
| ccgaatggct | gagtctttgt | atgagatccg  | ctttcgggaa | aacgtggaga  | agagaattct | 660  |
| gtgccacatg | cagctcagtt | ctgcacaggt  | ggagcagctg | cgccaggcca  | ttgaagaact | 720  |
| gtactacttt | gaatttgtgg | tagatgactt  | gccaatccgg | ggctttgtgg  | gctacatgga | 780  |
| ggagagtggg | ttcctgccac | acagccacaa  | gataggactc | tggaccatt   | tggacttcca | 840  |
| cctagaattc | catggagacc | gaattatatt  | tgccaatgtt | tcagtgcggg  | acgtcaagcc | 900  |
| ccacagcttg | gatgggttac | gacctgacga  | gttcctaggc | cttaccacaca | cttatagcgt | 960  |
| gcgctggctc | gagacttcag | tggagcgtcg  | gagtgcacag | cgccgtgggtg | acgatgggtg | 1020 |
| tttctttcct | cgaacactgg | aaatccattg  | gttgtccatc | atcaactcca  | tgggtgcttg | 1080 |
| gtttttactg | gtgggttttg | tggctgtcat  | tctaatacgt | gtgcttcgga  | atgacctggc | 1140 |
| tcggtacaac | ttagatgagg | agaccacctc  | tgcaggttct | ggtgatgact  | ttgaccaggg | 1200 |
| tgacaatggc | tggaaaatta | tccatacaga  | tgtcttcgcg | ttccccccat  | accgtggtct | 1260 |
| gtctgtgct  | gtgcttggcg | tgggtgcccc  | gtcctggcc  | cttggcactg  | gcattattgt | 1320 |
| catggcactg | ctgggcatgt | tcaatgtgca  | ccgtcatggg | gccattaaact | cagcagccat | 1380 |
| cttgttgat  | gccctgacct | gctgcacttc  | tggctacgtg | tccagccact  | tctaccggca | 1440 |
| gattggaggc | gagcgttggg | tgtggaacat  | cattctcacc | accagtctct  | tctctgtgcc | 1500 |
| tttcttcctg | acgtggagtg | tgggtgaactc | agtgcattgg | gccaatgggt  | cgacacaggc | 1560 |
| tctgccagcc | acaaccatcc | tgtctgttct  | gacgggttgg | ctgctgggtg  | gctttcccct | 1620 |
| cactgtcatt | ggaggcatct | ttgggaagaa  | caacgccagc | ccctttgatg  | cacctgtctg | 1680 |
| caccaagaac | atcgcccggg | agattccacc  | ccagccctgg | tacaagtcta  | ctgtcatcca | 1740 |
| catgactgtt | ggaggcttcc | tgcctttcag  | tgccatctct | gtggagctgt  | actacatctt | 1800 |
| tgccacagta | tggggtcggg | agcagtacac  | tttgtacggc | atcctcttct  | ttgtcttcgc | 1860 |
| catcctgctg | agtgtggggg | cttgcacttc  | cattgcactc | acctacttcc  | agttgttgg  | 1920 |
| ggaggattac | cgctgggtgt | ggcgatctgt  | gctgagtgtt | ggctccaccg  | gcctcttcat | 1980 |
| cttcctctac | tcagttttct | attatgcccg  | gcgtcccaac | atgtctgggg  | cagtacagac | 2040 |
| agtagagttc | ttcggtact  | ccttactcac  | tggttatgtc | ttcttccctca | tgctgggcac | 2100 |
| catctccttt | tttcttccc  | taaagtccat  | ccggtatata | tatgttaacc  | tcaagatgga | 2160 |
| ctgagttctg | tatggcagaa | ctattgctgt  | tctctccctt | tcttcatgcc  | ctgttgaact | 2220 |
| ctcctaccag | cttctcttct | gattgactga  | attgtgtgat | ggcattgttg  | ccttcccctt | 2280 |
| tgcccttttg | gcattccttc | cccagagagg  | gcctggaaat | tataaatctc  | atcacataa  | 2340 |
| ggattatata | tttgaacttt | ttaagttgcc  | tttagttttg | gtcctgattt  | ttctttttac | 2400 |
| aattaccaaa | ataaaattta | ttaag       |            |             |            | 2425 |

<210> 527  
 <211> 1543  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n equals a,t,g, or c

|            |            |            |            |              |             |     |
|------------|------------|------------|------------|--------------|-------------|-----|
| <400> 527  |            |            |            |              |             |     |
| cttgactgtg | ttttattatt | tcatggcttg | tatgagtgtg | actgggtgtg   | tttcttttagg | 60  |
| gttctgattg | ccagtnatth | tcatcaataa | gtcttgcaaa | gaatgggatt   | gtcattcttc  | 120 |
| acttcagcac | agttctagtc | ctgcttctct | ggagtagggg | tgttgagtaagg | tgtgcttgg   | 180 |
| gttgtgcatt | gcacaaggcg | acatggctgt | gaggtgtatc | ctggcggggg   | gctgtctacc  | 240 |
| tgcagtgagg | ggcacctttt | ctgttttgct | caaaggcatg | tataagccaa   | tgggtgacct  | 300 |
| tatttctctg | gtcttcaggt | gtgtggcagg | gggcctgggg | tggggagggtg  | gggcgagcga  | 360 |
| gcagtgtgtg | gaaagccttg | ttgtcacctg | aagcacgcca | ggtccagatt   | gaccaatggt  | 420 |
| tttctcactt | cagggccmac | ccacgcccc  | tttctgctga | ggtttgggtg   | ccatctagtg  | 480 |
| gtgggatggg | acttggttga | ctacatttaa | ggtaagggtg | accagcaac    | tcccagaaac  | 540 |
| aactccgggg | acaccactcc | ccatcacact | ccacaccgag | cctgtgcc     | ggtctgtgcc  | 600 |

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| cgagctcagc  | gggaccagga | agggatgggc | cctgccaggg  | ttgcccctgc | actgtgcatt  | 660  |
| ctgcctggg   | aggcacaagt | tctttcatct | gcttttcctt  | cagaggtgct | gagcccacgc  | 720  |
| catagcccct  | gtgggatggg | gggggagggg | gcgacccgaa  | caacagtgca | gtcggtatcg  | 780  |
| agattgggga  | gaggagcgag | tccaaggaga | aggatcatgag | tttcttttta | ctcgtgttga  | 840  |
| ataataacaa  | taacaataac | aatatggaaa | ccaccgcaaa  | cttggagaaa | agttgtaagc  | 900  |
| acagtaaaga  | gaagcttcct | tctgagtcac | ttgagtgggt  | gccgttctgg | ccctgcaccc  | 960  |
| tctgtgcttt  | gggacggcgt | ccaacccgca | ttcatgtcag  | gagtgagtcg | cacgtggcct  | 1020 |
| tgtggatcatg | gcgacttaat | ctgcctggac | ggtaggtccg  | tctccctggg | cttagacgac  | 1080 |
| cttggcactt  | ctggagataa | gcccattggc | cccaggttgt  | gttcatgtga | cgtttccttg  | 1140 |
| tggtaggttc  | tgggtctgcg | ttttgtctag | gagtgtcaca  | ggatggacac | tgcctcctgg  | 1200 |
| caggggctgc  | ccaatgcagt | tagcctcctg | ctgggtgttct | ctcttggtgc | ttggtgaagg  | 1260 |
| tggccctggg  | cagcttctcc | actgcccagt | gaacgacccc  | tttgtaatga | atgagtgggg  | 1320 |
| aggtagtggtg | aagcgatgcc | aatatcccat | ccctgtcaaa  | ctgcctttac | tttttccttc  | 1380 |
| cttccttgct  | cccacctgtg | tggatcctgg | tccttcttg   | tattcagggc | tgtgggtctgt | 1440 |
| tatgacattt  | actctcaggc | tcaggtcctg | cttggttggc  | ccgtgggagc | cccttcttct  | 1500 |
| gccttttgtg  | ttkttttggt | atgtacctac | attatttaac  | tgg        |             | 1543 |

<210> 528  
 <211> 1174  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| <400> 528  |            |             |            |             |             |      |
| ggaattcggc | acgagctggc | tgcagggctct | ctggggagag | aaggggcctc  | ggcttcacag  | 60   |
| gatggggctg | ccagtgtcct | gggcccctcc  | tgcctctgg  | gttctaggg   | gctgcgccct  | 120  |
| gctcctctcg | ctgtgggcgc | tgtgcacagc  | ctgccgcagg | cccaggagcg  | ctgtagcccc  | 180  |
| caggaagagg | gcgcggaggc | agcgggcgag  | gagcagggc  | agtgcgacgg  | cggcgggaagc | 240  |
| gtccctactg | aggcggaccc | acctctgctc  | cctcagcaag | tcggacacca  | gactgcacga  | 300  |
| gctgcaccgg | ggcccgcgca | gcagcagggc  | cctgcggcct | gccagcatgg  | atctcctgcg  | 360  |
| cccacactgg | ctggaggtgt | ccagggacat  | caccggaccg | caggcagccc  | cctctgcctt  | 420  |
| cccacaccag | gagctgcccc | gggctctgcc  | ggcagctgca | gccaccgcag  | ggtgcgctgg  | 480  |
| cctcagggcc | acctattcca | acgtggggct  | ggcggccctt | cccgggggtca | gcctggcggc  | 540  |
| cagccctgtg | gtggccgagt | atgcccgctg  | ccagaagcgc | aaagggaccc  | atcgagctcc  | 600  |
| ccaagagcca | cagcagggga | agactgaggt  | gaccccggcc | gctcaggtgg  | acgtcctgta  | 660  |
| ctccagggtc | tgcaagccta | aaaggaggga  | cccaggaccc | accacagacc  | cgtcggaccc  | 720  |
| caagggccag | ggagcgattc | tggccctggc  | gggtgacctg | gcctaccaga  | ccctcccgcct | 780  |
| cagggccctg | gatgtggaca | gcggccccct  | ggaaaacgtg | tatgagagca  | tccgggagct  | 840  |
| gggggaccct | gctggcagga | gcagcacgtg  | cggggctggg | acgccccctg  | cttcagctgtg | 900  |
| ccccagccta | gggaggggct | ggagacccct  | ccctgcctcc | ctgccctgaa  | caactcaagga | 960  |
| cctgtgctcc | ttcctccaga | gtgaggcccg  | tcccccgccc | cgccccgcct  | cacagctgac  | 1020 |
| agcgccagtc | ccaggtcccc | ggcccgccag  | cccgtgaggt | ccgtgaggtc  | ctggccgctc  | 1080 |
| tgacagccgc | ggcctccccg | ggctccagag  | aaggccccgc | tctaaataaa  | gcgccagcgc  | 1140 |
| aggatgaaag | cgaaaaaaaa | aaaaaaaaaa  | aaaa       |             |             | 1174 |

<210> 529  
 <211> 1766  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 529  |            |            |            |            |            |     |
| cggcacgagg | agcactgaag | tattcactac | atgaagtata | ttttgcactg | tggacacaaa | 60  |
| ttagaaaaat | tgcaagtagt | ggtatattgt | aattggcatg | cactatatga | gcagagtcaa | 120 |
| tgtgtctcct | tgtagaatat | tctctgatga | tactcactat | tatccccctc | ctgctaagct | 180 |
| ttgttctgtg | tctgaagggc | ataaagcatg | gaaactacat | ttttcagact | ccattaccag | 240 |
| aaggatatgg | ttggatttca | gcaatgagtg | ggctttgcat | aaaatttgga | agacgaaaga | 300 |
| gaagaaaaac | ctggctgctg | caggttggaa | cactggcaac | aatagatacg | gagtttgcaa | 360 |
| gaagctgcta | agcttcctca | ggaaaattat | ttgtttcaat | atttctggca | atgggatca  | 420 |

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| tcaattattg  | ttttcagtgg | ttctggctga  | aaattgggtc | aattcttcta | tctgagaatt  | 480  |
| gttcatttct  | gtgcttcagg | aaactaagac  | catcactggc | agtttttggt | gagggatcct  | 540  |
| tgtgcattca  | tttttcctta | aaacagcctt  | cctaactttt | actccccag  | cctctatggt  | 600  |
| tgtgtaagtc  | tttaattctt | agagttacat  | ttctcttact | cagtatatcc | tagtgcggt   | 660  |
| tctgttttcc  | agaccaacc  | ctgactgata  | tagtctccat | gtgtttcaga | tggtgggata  | 720  |
| gtttgatgat  | ttgtccctgc | ccaaatttca  | tggtgaactc | taatccccag | tgctgtaggt  | 780  |
| ggggcccaat  | gggaggtggt | cggatcatgg  | gggcagatcc | ctcacgctt  | ggtgctgtct  | 840  |
| tcgtgatagt  | gagttcttgt | aagatctggt  | cattttaaag | tgtttggcac | ttgtaccatt  | 900  |
| tcactgtgtc  | ttgctcctgc | tttcaccatg  | tgaagtgcct | gctccagctt | cacttttcac  | 960  |
| catgattgta  | aacttcctga | ggcctcccta  | gaagccaagc | agatgccatc | accaggggtc  | 1020 |
| ctgtaaagca  | tgcagaactg | ttagccaatt  | atacctcttt | tctttacaaa | ttaaaaacct  | 1080 |
| cttttcttta  | caaaatggaa | agaataaagg  | tatttcttta | tagcaatgca | agaacggcct  | 1140 |
| aatacagatg  | gctctgccat | tagtgagaaa  | attgagacgc | tttctctaga | tggtcaaaaaa | 1200 |
| gttgtaaaaa  | taaaaggaaa | ttattaatat  | accgtctatt | gtgatcattt | actaagttaa  | 1260 |
| gcatattatt  | aagaagacaa | gcataagttt  | aacacaattt | ggcaatgaat | aaaattgaag  | 1320 |
| gagagagagc  | atatgttggc | tttgctctgt  | gaaactcaaa | tgaaatggtc | acctgttcta  | 1380 |
| gcagctcatg  | aaaaattctg | cattgtttat  | tatgtgtcag | gatcaacctt | aaattcagtt  | 1440 |
| ataaaaaagt  | tgatgattac | aaaaaaaaagg | gaagcactaa | gtaatatagg | tacagagagg  | 1500 |
| gaagagtgtc  | aaatagaatt | ttcaatctgt  | gtataaggat | acttaagcat | tttttaagga  | 1560 |
| aagcagaaaag | aagcatgaga | aagtctacaa  | tgacatctat | gtcaatataa | caagctggat  | 1620 |
| atttagagaa  | gaaactcttg | attaaatact  | tttttgata  | tgaacacaca | catataatat  | 1680 |
| gacatgactg  | tgttcatgga | acataaagaa  | attcctctga | ccaaagagaa | ctggaaaaaa  | 1740 |
| aaaaaaaaaa  | actcgagggg | gggccc      |            |            |             | 1766 |

<210> 530  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (248)..(248)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1004)..(1004)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1014)..(1014)  
 <223> n equals a,t,g, or c

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 530   |            |            |             |             |             |     |
| ttcggcagag  | cccttgcgcg | cttttgaata | cctgckttct  | gtagcgctag  | ttctcttcaa  | 60  |
| gatttgctta  | gtgtcatttc | atttcgggtt | cttttctcgc  | catgtttttc  | tgctcggaatt | 120 |
| acggttcggt  | ttggttctat | gtactctcta | aaatgttatc  | gttttttcatt | tgtctactaa  | 180 |
| ttttcgtgca  | tttgttacta | ctgagtttct | taatatctga  | ctggcctccg  | ccacggggt   | 240 |
| ctgcaganca  | taaaatactc | aggctgatgg | tagtgacagag | actctccctc  | cttgatcagc  | 300 |
| gcaaacgttg  | gtctgaggct | tgagggatgg | agcaacattt  | tcttggtgtg  | gtgaagcggg  | 360 |
| cttgggattc  | cgcagaggtg | gcgccagagc | cccagcctcc  | acctattgtg  | agttcagaag  | 420 |
| atcgtggggc  | gtggcctctt | cctttgtatc | cagtactagg  | agagtactca  | ctggacagct  | 480 |
| gtgattttggg | actgctttcc | agcccttgct | ggcggctgcc  | cggagtctac  | tggtcaaacg  | 540 |
| gactctctcc  | tgaggtccag | agcaccttgg | aaccaagtac  | agcgaagccc  | actgagttca  | 600 |
| gttgggccggg | gacacagaag | cagcaagarg | caccgcgtaga | akargtggg   | caggcagarg  | 660 |
| aaccgcagacg | actcaggctc | crgcagcttc | cctggagcag  | tcctctccat  | cctgtgggaca | 720 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gacagcagga | caccgaggtc | tgtgacagcg | ggcgcctttt | ggaacgccgc | catcctcctg | 780  |
| ccctccagcc | gtggcgccac | ctcccgggtt | tctcagactg | cctggagtgg | attcttcgcg | 840  |
| ttggttttgc | ogcgttctct | gtactctggg | cgtgctgttc | acggatctgt | ggagctaagc | 900  |
| agccttagat | agcagcagaa | ggcttttttg | attctcctcc | ttgaaaagat | tctcagttac | 960  |
| caaacgtctc | cacctagaaa | ataaaaatac | attaagatgt | tganaaaaaa | aaanaaaaaa | 1020 |
| a          |            |            |            |            |            | 1021 |

<210> 531  
 <211> 433  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (309)..(309)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (408)..(408)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (418)..(419)  
 <223> n equals a,t,g, or c

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 531   |            |            |            |            |            |     |
| ggcacagctc  | accttcctac | cctccactgg | aaaccactcc | tctccatggt | gacctcctgg | 60  |
| attgcctcca  | tccctcccg  | ctgtgggggt | ctgtgtatct | gcttgtgttt | tggattgggt | 120 |
| cactgtctgg  | atctgtcaag | gaagataacc | atttttcag  | gagctgtgta | catggtgaaa | 180 |
| aatatacagt  | tctggttgta | aggaactctc | acttggaat  | attattattt | aaaaacttat | 240 |
| acgttgagct  | cagtgtgtgc | acagaggtaa | gaatactgtg | gaaaggctat | aaatatTTTT | 300 |
| ccccaaaagnc | aggggttgga | aacatTTTTc | tttctaggc  | tgttgagact | cacagggaaa | 360 |
| aaaaaaaaaaa | aaaatccggg | ggggggcccc | gtaccattg  | gcccctangg | gggggttnna | 420 |
| aaaagggcc   | ggt        |            |            |            |            | 433 |

<210> 532  
 <211> 1155  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |            |             |     |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| <400> 532   |             |             |            |            |             |     |
| ggcacgagtg  | gaagtgtaag  | cagaaataca  | gcagggctc  | aggaaatact | agaataggca  | 60  |
| acatgctctt  | cctctctgct  | tctatctgca  | catctgcttt | atttctttgc | ctcagcagac  | 120 |
| tcaccatctc  | tgctcctcat  | cccgcattgg  | ggggaaggat | gcccacccac | acctccccag  | 180 |
| gccatctgtt  | agagctccaa  | ccacgtggaa  | tgacggaatc | cattctgttc | tctatctctg  | 240 |
| ctctagtttc  | aaattcctgg  | ggaaaaatga  | cccagctcac | ttcaggctcc | cactcttggt  | 300 |
| ccagtgggct  | gcaaaaatttc | caagcgtagc  | ttctgtcagt | tccttgcttt | gggttaggtg  | 360 |
| aaaatgaagg  | gaataattgt  | gagctgttca  | gattcaccaa | gaaattatct | actattgttg  | 420 |
| ggggagaatg  | cccaggggac  | agatgcattt  | gggtaaggga | caataacaag | acactagaaa  | 480 |
| ggaaaaatccc | aatttttattt | tcctacagag  | tcagcatccc | acacattttc | cttcacagaa  | 540 |
| actgacaaat  | aatccatggg  | ggcagcttag  | cagatgggtt | gaaaaaagcg | acaggctcat  | 600 |
| catcagtttt  | caacaccttg  | atacatcagg  | cttggccctt | gctacctcat | gcattattt   | 660 |
| agcacaatgc  | atctccctct  | aattgtgtca  | tgtgctggag | gagaatgtga | agttctgtct  | 720 |
| gtcttttagca | aacatgtttc  | aagtactgtc  | tgtctgaaaa | ccaaatggaa | gagggttaac  | 780 |
| ttgatgatcc  | acttgatttt  | agtttttagga | cctggatgca | taggcagatg | tcagttttaca | 840 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aggattctgt | gtactttaag | gattgttttc | tgagcatgtc | cagtacaaca | gacgctctgt | 900  |
| taggtagctg | tagttaggat | tttttggttg | taagtatgtg | aagattttaa | tgtatcagct | 960  |
| cacttactca | gaaaatctga | ggcagtgcta | gccaaaccaa | atggttcaag | caaatgtcat | 1020 |
| cagtatttgg | cctcttccag | tctttttact | cctctatcct | ctgtgtctgc | ttacttcta  | 1080 |
| cacaagcttt | ctctatgtgg | tggtccaga  | ttttatatct | tctagtagat | atTTTTTtaa | 1140 |
| aaaaaaaaaa | aaaaa      |            |            |            |            | 1155 |

<210> 533

<211> 727

<212> DNA

<213> Homo sapiens

<400> 533

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gctggatatct | ccagtgtttg | ggttagctc  | caacttacag | gttaggacca  | gcttttctgc  | 60  |
| aggtgttgac  | cagcaatttc | ctgcggcatt | tacttcttga | taacaagagt  | gagaagatag  | 120 |
| agacagggca  | gatagacact | taagagtaaa | atgtattaac | acaaaggctc  | tggccgcccc  | 180 |
| cctacaaagg  | aggccatgga | accgatggaa | ctgatggagg | aaatgctggg  | acgtgggtc   | 240 |
| agtgtctgaca | cacccatggc | catagctttg | gtcttcttgg | ccttggctgg  | gctgggtggat | 300 |
| gggaagccag  | tatggatcac | cttgtggatg | gatgcaaaga | gaccaaactt  | ggcgggcaact | 360 |
| ggaagtacct  | ggggaagcag | gagagactca | cactgctgtc | atggccccac  | agcctggagc  | 420 |
| ctcccctgcc  | tccctctgct | cttcagagcc | cagcagaaag | acagagaaaag | aagcctcctt  | 480 |
| ggggttccat  | taccacact  | ccaaggtgga | aatctttcag | atgggttagat | gatgaaggta  | 540 |
| gtagaaggca  | aggatgattg | ggagtagaag | gaagagtgc  | aggctagcat  | gagctgtgca  | 600 |
| gcagcaagat  | tccatatgag | caaagttag  | aaagtgrgmm | aaaaggaca   | agttggatct  | 660 |
| cctcctaacc  | ctgacctgca | tgatatgggt | gtgagaagct | tcaactgaga  | aagctgctga  | 720 |
| gaaagta     |            |            |            |             |             | 727 |

<210> 534

<211> 2112

<212> DNA

<213> Homo sapiens

<400> 534

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aacccccagtt | caatacgact  | cactataggg  | aaagctggta  | cgctgcagg   | taccgggtccg | 60   |
| gaattccccg  | gtcgacccac  | gogtccggga  | gttcaaagcc  | atgctgatcg  | ctgtgggcat  | 120  |
| ccacctgctg  | ctgctcatgt  | tcgaagtcct  | ggtctgcgac  | aggyggaga   | ggggcaccca  | 180  |
| cttctggctg  | ctgggtcttca | tgcctctctt  | cttcgtgtcc  | cccgtgtcg   | tggctgcctg  | 240  |
| cgtctggggc  | tttcgacacg  | ataggtcgct  | ggagctggag  | atcctgtgct  | cggcacaact  | 300  |
| cctgcagttc  | atcttcatcg  | ccctaaagct  | ggacaggatt  | attcactggc  | cgtggctgggt | 360  |
| ggtgtttgtg  | cccctgtgga  | tcctcatgtc  | gttcctttgc  | ctggctgtcc  | tctattacat  | 420  |
| cgtctggtec  | ctcctgttcc  | tgcggtccct  | ggatgtgggt  | gccgagcagc  | ggagaacaca  | 480  |
| cgtgaccatg  | gctatcagtt  | ggataacgat  | tgctgtgcct  | ctgctcactt  | ttgaggtcct  | 540  |
| gctggttcac  | agattggatg  | gccacaatac  | attctcttac  | gtctccatat  | ttgtccccct  | 600  |
| ttggctttcc  | ttactaactt  | taatggccac  | aacatttagg  | gaaaggggg   | gcaatcattg  | 660  |
| gtggtttggc  | attcgagag   | acttctgtca  | gtttctgctt  | gaaattttcc  | cattttttaag | 720  |
| agaatatggg  | aacatttcat  | atgatctcca  | tcacgaagat  | agtgaagatg  | ctgaagaamc  | 780  |
| atcagttcca  | gaagctccga  | aaattgctcc  | aatatttgga  | aagaaggcca  | gagtagttat  | 840  |
| aaccagagc   | cctgggaaat  | acgttcccc   | ccctcccaag  | ttaaattattg | atatgccaga  | 900  |
| ttaaaactcct | agagaggacc  | caggcacaca  | cagactccac  | ttggccttcg  | cctcttgttc  | 960  |
| attcatccca  | aacctggaaa  | tggaacacag  | cttcaaacac  | tcgtctcacg  | ccgtgtttga  | 1020 |
| gatcaccgcc  | tcatacgtat  | gcatacataga | tggaggggt   | ttcagtatgt  | gggtgtgtgt  | 1080 |
| grtgtgtacc  | tgggtaagag  | acttgctttc  | cagggttcgca | ctttcagggtg | tagctggggg  | 1140 |
| cagtaagtgc  | aattgtttta  | gtaggtcctc  | aaaaggaata  | accacacagc  | tgtttgttta  | 1200 |
| aatgctactg  | tacatatcaa  | aactattgtt  | taaaaagtat  | ttttatacac  | tgctaatacta | 1260 |
| aaattgtatt  | tcagattgtg  | cctgtcataa  | caatagcaaa  | tgtaaaaagt  | tctctttccc  | 1320 |
| accacttggt  | tataaacctc  | atagttgata  | tttttagtgt  | tcctactgtt  | aaaataactct | 1380 |
| ctccttgggc  | tttgctgata  | ctggctctta  | atattctgat  | aggtgaattt  | ttctaattga  | 1440 |

|            |             |            |             |            |            |      |
|------------|-------------|------------|-------------|------------|------------|------|
| atgaacccat | gcataatatag | tatttatatg | aatatatttag | cagtgtata  | tgttgaattc | 1500 |
| tagttctctg | cattaccatt  | attacgttaa | agtatttttt  | aaagcttarg | tgtgaagata | 1560 |
| tgtgkctatt | gcagatgtcc  | ttggaaaact | gcataaaaca  | gtatgtgccy | ggtgtggatc | 1620 |
| ttaccaaagt | actaggcatg  | aatgtaggga | ctgcaaacc   | catgggtctt | aatatttagg | 1680 |
| tgttagtaac | caaggtctct  | ggtagtaccc | gttagtagag  | gaagaggcca | ctgcccttgg | 1740 |
| gaacttgtga | caggctctag  | tgtggtacca | ggccataaag  | tgacactggt | atttagcaac | 1800 |
| ttgaatttyt | ccacacaggt  | agtaactgtg | tggaaataag  | caacaagtgg | tttgtccatt | 1860 |
| tctaagaatc | ttaaactatt  | agttgctgt  | agtgtgaagc  | attacttgtc | attggaaaga | 1920 |
| tggagagagt | ggccttaacc  | ggaagtggtc | agtagaagca  | ggtgtcattt | taagggccaa | 1980 |
| actttaatct | gtcagcaata  | gggaaacaac | tgttcaaatt  | atctttgtag | ataagaacag | 2040 |
| tgkttctttt | ttcttttctt  | ttgktttttt | gkttgkttgk  | tttgktttgt | tttgaacag  | 2100 |
| agtttcactc | tt          |            |             |            |            | 2112 |

<210> 535  
 <211> 1598  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |              |             |      |
|-------------|------------|-------------|------------|--------------|-------------|------|
| <400> 535   |            |             |            |              |             |      |
| ggcacgaggg  | actggggagg | cgtgtcttga  | aaaagcaact | gcagaaattc   | cttatgatga  | 60   |
| ttgtgtgcaa  | gttagttaac | atgaaccttc  | atttgtaaat | tttttaaaat   | ttcttttata  | 120  |
| atatgctttc  | cgcagtccta | actatgctgc  | gttttataat | agctttttcc   | cttctgttct  | 180  |
| gttcatgtag  | cacagataag | cattgcactt  | ggtaccatgc | tttacctcat   | ttcaaaaaaa  | 240  |
| tatgcttaac  | agagaggaaa | aaaatgtggt  | ttggccttgc | tgctgttttg   | attttggaa   | 300  |
| tttgaaaaag  | ataattataa | tgcttgcaat  | gtgtcatata | ctcgacacac   | ttaaataggt  | 360  |
| cattttttgtc | tgtggcattt | ttactgtttg  | tgaaagtatg | aaacagattt   | gttaactgaa  | 420  |
| ctcttaatta  | tgttttttaa | atgtttgtta  | tatttctttt | cttttttctt   | ttatattacg  | 480  |
| tgaagtgatg  | aaatttttag | tgacctctaa  | cactcctgta | attgtctttt   | aaaatactga  | 540  |
| tattttttatt | tgtaataaat | actttgccct  | cagaaagatt | ctgataccct   | gccttgacaa  | 600  |
| catgaaaact  | gaggctgctt | tggttcatga  | atccagggtg | tcccccgcca   | gtcggcttct  | 660  |
| tcagtcgctc  | cctggaggga | ggtgggcact  | gcagaggatc | actggaatccag | atcgagcg    | 720  |
| cagttcatgc  | acaaggcccc | gttgatttaa  | aatattggat | cttgctctgt   | taggggtgtct | 780  |
| aatcccttta  | cacaagattg | aagccacca   | actgagacct | tgataccctt   | ttttaactgc  | 840  |
| atctgaaatt  | atgttaagag | tctttaaccc  | atttgcatta | tctgcagaag   | agaaactcat  | 900  |
| gtcatgttta  | ttacctatat | ggttggttta  | attacatttg | aataattata   | ttttccaac   | 960  |
| cactgattac  | ttttcaggaa | tttaattatt  | tccagataaa | tttctttatt   | ttatattgta  | 1020 |
| catgaaaagt  | tttaagata  | tgtttaagac  | caagactatt | aaaatgattt   | ttaaagtgtg  | 1080 |
| tggagacgcc  | aatagcaata | tctaggaaat  | ttgcattgag | acctgtgat    | tttccactag  | 1140 |
| cagtgaat    | gatttttcac | aactaacttg  | taaatatatt | ttaatcatta   | cttctttttt  | 1200 |
| tctagtccat  | ttttattttg | acatcaacca  | cagacaattt | aaattttata   | gatgcactaa  | 1260 |
| gaattcactg  | cagcagcagg | ttacatagca  | aaaatgcaaa | ggtgaacagg   | aagtaaattt  | 1320 |
| ctggcctttc  | tgctgtaaat | agtgaaggaa  | aattactaaa | atcaagtaaa   | actaatgcat  | 1380 |
| attattttgat | tgacaataaa | atattttacca | tcacatgctg | cagctgtttt   | tttaaggaaca | 1440 |
| tgatgtcatt  | cattcatata | gtaatcatgc  | tgcagaaatt | tgagtcctgc   | accttatgga  | 1500 |
| tcacaattac  | ctttagttgt | tttttttgta  | ataattgtg  | ccaagtaaat   | ctccaataaa  | 1560 |
| gttatcgtct  | gttcaaaaaa | aaaaaaaaaa  | aaaaaaaaa  |              |             | 1598 |

<210> 536  
 <211> 1256  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 536  |            |             |            |            |            |     |
| ggcacgagcc | gtgtggccag | gtaccatcca  | gtctgctggg | gaccccgagg | agaacagaag | 60  |
| cagagaaaag | gtgaaaatgt | caattttatgt | gcgaaggctg | gctacatcca | atcttcctct | 120 |
| attgttgttt | ttggacaacg | accccaagct  | gctcagcctt | tggaatcctg | gatttacacc | 180 |
| agcagcacc  | tatccccacc | ccttctctct  | ggttctcagg | cctttgtcct | tggactgagt | 240 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| tacatcattg  | tcttcgctga  | ttctaaacct  | tgggacttg  | actgagctac | cagcatctca  | 300  |
| gggcctctag  | tttgagatg   | gcctgtcaag  | ggacttagtc | tccaaaattg | caggagccag  | 360  |
| tttcctaata  | aaatcccaat  | gtgatagtgc  | ttatcccaca | ggcccacttt | agttcagttt  | 420  |
| agttttgctt  | tgttttttaga | aatgggggtct | tgctctgttg | cccagctgt  | agtgcagtgg  | 480  |
| ctcactccag  | cctcaaaactc | ctgggctctg  | gcgatcctcc | caactcagcc | tcctgagtag  | 540  |
| ctgggattac  | aggtgcacac  | caccatgccc  | agctactttt | taattttttt | tttttgagac  | 600  |
| agagtcttgc  | tctttcaccc  | aggctggagt  | gcagtggcgt | aatctcagct | caactgtaacc | 660  |
| tctgcctccc  | tagtggtgg   | gaccgcagat  | gttgccact  | gcaccagct  | aattttttgt  | 720  |
| tttcggtaga  | gacagggctt  | tgccgtgttg  | gcccggctgg | tcttgaactc | ctggcctcaa  | 780  |
| gtgacccacc  | cacatcgacc  | tcccaaagtg  | ctgggattac | aggcgtgagc | catctcacct  | 840  |
| gcctactttt  | taaatttttt  | gtagagacag  | ggtcttgcta | tattgcccag | gctaattctcg | 900  |
| aacacctggc  | ctcaagcgat  | cttcccactc  | gggcctctca | aagtgcctgg | attacaggca  | 960  |
| ggagcccctt  | aaccaacttc  | gagaacttgg  | gaaataagat | gtggtgggtt | cttgccaccg  | 1020 |
| tgagccaaac  | ctgggtcaga  | acttcatgtg  | tgatctggcc | cctacatata | cccactctga  | 1080 |
| tgatatta    | tgacaacttg  | gataacatg   | tcgatattga | ccttgtgtcc | cacaggtctt  | 1140 |
| aaaatatttg  | gttattccac  | ttttcccagt  | gtatagttac | cagagcaaat | gatagttccc  | 1200 |
| tttgagagaag | tattaaggga  | tcattaacaa  | atactaacia | aaaaaaaaaa | aaaaaa      | 1256 |

<210> 537

<211> 2801

<212> DNA

<213> Homo sapiens

<400> 537

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ccacgcgtcc | gcgagcccgg  | ggcgggtgga  | cgcggactcg  | aacgcagttg  | cttcggggacc | 60   |
| caggaccccc | tccggcccga  | cccgccagga  | aagactgagg  | cgcgggcctg  | ccccggccgg  | 120  |
| ctccctgcgc | cgccgcggcc  | tcccgggaca  | gaagatgtgc  | tccaggggtcc | ctctgctgct  | 180  |
| gccgctgctc | ctgctactgg  | ccctggggcc  | tgggggtgcag | ggctgccccat | ccggttgcca  | 240  |
| gtgcagccag | ccacagacag  | tcttctgcac  | tgcccgcag   | gggaccacgg  | tgccccgaga  | 300  |
| cgtgccaccc | gacacggtgg  | ggctgtacgt  | ctttgagaac  | ggcatcacca  | tgctcgacgc  | 360  |
| aggcagcttt | gccggcctgc  | cgggcctgca  | gtcctctggac | ctgtcacaga  | accagatgc   | 420  |
| cagcctgccc | agcgggggtct | tccagccact  | cgccaacctc  | agcaacctgg  | acctgacggc  | 480  |
| caacaggctg | catgaaatca  | ccaatgagac  | cttccgtggc  | ctgcggcgcc  | tcgagcgctt  | 540  |
| ctacctgggc | aagaaccgca  | tccgccacat  | ccagcctggt  | gccttcgaca  | cgctcgaccg  | 600  |
| cctcctggag | ctcaagctgc  | aggacaacga  | gctgcgggca  | ctgccccgc   | tgcgcctgce  | 660  |
| ccgcctgctg | ctgtctggacc | tcagccacaa  | cagcctcctg  | gccctggagc  | ccggcatcct  | 720  |
| ggacactgcc | aacgtggagg  | cgctgcgggt  | ctgtgtctg   | gggctgcagc  | agctggagca  | 780  |
| ggggctcttc | agccgcttgc  | gcaacctcca  | cgacctggat  | gtgtccgaca  | acagctgga   | 840  |
| gcgagtgcca | cctgtgatcc  | gaggcctccg  | gggcctgacg  | cgctgcgggc  | tgcccgccaa  | 900  |
| caccgcgatt | gcccagctgc  | ggcccagagga | cctggccggc  | ctggctgccc  | tgacggagct  | 960  |
| ggatgtgagc | aacctaaagcc | tgacggccct  | gcctggcgac  | ctctcgggcc  | tcttccccccg | 1020 |
| cctgcggctg | ctggcagctg  | cccgcacccc  | cttcaactgc  | gtgtgcccc   | tgagctgggt  | 1080 |
| tggccccctg | gtgcgcgaga  | gccacgtcac  | actggccagc  | cctgaggaga  | cgcgctgcca  | 1140 |
| cttcccgcgc | aagaacgctg  | gcccggctgct | cctggagctt  | gactacgccg  | actttggctg  | 1200 |
| cccagccacc | accaccacag  | ccacagtgc   | caccacgagg  | cccgtgtgc   | gggagccac   | 1260 |
| agccttgtct | tctagcttgg  | ctcctacctg  | gcttagcccc  | acagcgccgg  | ccactgaggc  | 1320 |
| ccccagcccg | ccctccactg  | ccccaccgac  | tgtagggcct  | gtccccagc   | cccaggactg  | 1380 |
| cccacgctcc | acctgcctca  | atggggggcac | atgccacctg  | gggacacggc  | accacctggc  | 1440 |
| gtgcttgtgc | cccgaaggct  | tcacgggcct  | gtactgtgag  | agccagatgg  | ggcaggggac  | 1500 |
| acggcccagc | ctacacacag  | tcacgcccag  | gccaccacgg  | tccctgaccc  | tgggcatcga  | 1560 |
| gcccgtgagc | cccactccc   | tgccgctggg  | gtgcagcgc   | tacctccagg  | ggagctccgt  | 1620 |
| gcagctcagg | agcctccgtc  | tcacctatcg  | caacctatcg  | ggccctgata  | agcggctggt  | 1680 |
| gacgtgcga  | ctgcctgcct  | cgctcgctga  | gtacacggtc  | acccagctgc  | ggcccaacgc  | 1740 |
| cacttactcc | gtctgtgtca  | tgcccttggg  | gcccggggcg  | gtgccggagg  | gcgaggaggc  | 1800 |
| ctgcggggag | gcccatacac  | ccccagccgt  | ccactccaac  | cacgccccag  | tcacccaggc  | 1860 |
| ccgcgagggc | aacctgccgc  | tcctcatttc  | gcccgccttg  | gccgcgggtg  | tcctggccgc  | 1920 |
| gctggctgcg | gtgggggcag  | cctactgtgt  | gcggcggggg  | cgggccatgg  | cagcagcggc  | 1980 |



|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| tcaggacaaa | gggcaggtgg | ggccaggggc | tgggcccctg  | gaactggagg | gagtgaaggt  | 2040 |
| ccccttgagg | ccaggcccga | aggcaacaga | ggcg\$ggag  | aggccctgcc | cagcgggtct  | 2100 |
| gagtgtgaag | tgccactcat | gggcttccaa | ggcctggcct  | cagtcacccc | ttcacgcaaa  | 2160 |
| gccctacatc | taagccagag | agagacaggg | cagctgggcc  | gggtttcagc | cagtgaagatg | 2220 |
| ccagcccctt | cctgctgcc  | caccacgtaa | gttctcagtc  | ccaacctcgg | ggatgtgtgc  | 2280 |
| agacagggct | gtgtgaccac | agctggggcc | tgttccctct  | ggacctcggg | ctcctcatct  | 2340 |
| gtgagatgct | gtggcccagc | tgacgagccc | taacgtcccc  | agaaccgagt | gcctatgagg  | 2400 |
| acagtgtccg | ccctgccctc | cgcaacgtgc | agtcacctggg | cacggcgggc | ctgccatgtg  | 2460 |
| ctggtaacgc | atgcctgggc | cctgctgggc | tctcccactc  | caggcggacc | ctggggggcca | 2520 |
| gtgaaggaag | ctcccggaaa | gagcagaggg | agagcgggta  | ggcggctgtg | tgactctagt  | 2580 |
| cttgccccca | ggaagcgaag | gaacaaaaga | aactggaaag  | gaagatgctt | taggaacatg  | 2640 |
| ttttgctttt | tttaaata   | tatatattta | taagagatcc  | tttcccattt | attctgggaa  | 2700 |
| gatgtttttc | aaactcagag | acaaggactt | tggtttttgt  | aagacaaacg | atgatatgaa  | 2760 |
| ggccttttgt | aagaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | a          |             | 2801 |

<210> 538  
 <211> 1407  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (353)..(353)  
 <223> n equals a,t,g, or c

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| <400> 538   |             |             |             |            |             |      |
| gcttaagatg  | aaaagttcct  | tttcttgtgt  | taatggatgg  | cacaactggc | ataaaagggtc | 60   |
| attaaatgct  | aatagaccca  | cttgaggtat  | gctcgcttaa  | tggaggatta | gagcaaaaaca | 120  |
| gacttaaaaag | accaacatgc  | cagttgtgcc  | atcccttaag  | atgaaaagtt | cctttttctg  | 180  |
| tgtaaatgta  | caaagctttt  | cttttggcac  | tgacaactgt  | gttctacctg | ggaattttga  | 240  |
| atagccattt  | tcatgtgtgt  | gtgttgtgta  | acacaaatgt  | ttttaaatgg | tattctcacc  | 300  |
| cagtaggcca  | gctctccaaa  | cgttgcttag  | atgcttcaaa  | attagcatat | ttnaagttta  | 360  |
| ccagtataaa  | ataccaatgc  | aactactcta  | catagccaaa  | tgtttgtaaa | tcacgtctta  | 420  |
| ttttcctgak  | gtttttcact  | ccaccaaata  | ttacaaatsr  | ttgaaagaaa | tatatcttaa  | 480  |
| cagtacgcac  | tgaatagtga  | aaataattag  | acatttttaag | aaccagagcc | atagaattat  | 540  |
| tttaaattag  | tagaaaagag  | gagctatttc  | cgaatctata  | gaataaagta | cacctaaaa   | 600  |
| ctgaatttta  | tcatataasc  | aagtaatacc  | tattagtcat  | acctaaattt | ttcagcactt  | 660  |
| cattcaatta  | aaatmcata   | atttttaata  | ttttacatga  | tgtgaatagg | catgataata  | 720  |
| cttttagtat  | aaaatctaaa  | ctttttccat  | ttatcagaaa  | tgataaaatc | cagttaccac  | 780  |
| atatcacgtt  | tataaaatcc  | ttaattaaat  | gagtaacttc  | taaaatataa | caatactaaa  | 840  |
| tatcacactg  | cgatggagggt | cccaaataatg | tgggtctatca | ccactgaatt | catgtaatat  | 900  |
| ataagaaaaa  | aatttagaggt | ggatgtcttg  | ttttgtgtca  | tgaattacta | aaatctctta  | 960  |
| gtagttgtgg  | tatatTTTTTg | agtaaaaatta | ccattttccag | atttggtttt | gaaggggcttt | 1020 |
| tatagtkgta  | ttttcctcct  | cactgttaat  | aatcataatc  | ctttttcagt | atttttagtgg | 1080 |
| cctgaacaac  | tggtttatct  | acaatctcaa  | atcctaagtg  | tataattatg | tgcattgttca | 1140 |
| atacctcata  | taatacttgc  | tcaacagtat  | agtggtacca  | tggcattaag | atgggtgtttt | 1200 |
| tgttctacat  | attttttcaat | atttattctt  | tctatgttga  | aattatatca | ggctttaccg  | 1260 |
| gttttttttag | ttgttttaaat | aagtaatat   | ttcaaaagaa  | taaaataacc | aatgatattct | 1320 |
| cttggaataa  | tctgtaaaac  | gtagttataa  | aattctattt  | tctacttaga | aaaaaaaaaa  | 1380 |
| aaaaaaaaaa  | aaaaaaaaag  | ggcgggcc    |             |            |             | 1407 |

<210> 539  
 <211> 1097  
 <212> DNA  
 <213> Homo sapiens

<400> 539

|             |            |             |            |             |            |      |
|-------------|------------|-------------|------------|-------------|------------|------|
| ccacgcgtcc  | gccacgcgt  | ccggaagttg  | cctcctaggc | agaaatcaag  | aaatccaact | 60   |
| ataacatagg  | ttagagtcca | ttttggtttt  | tatatccttc | cacagaggaa  | agaggaggaa | 120  |
| gaatctggag  | atgcgttttt | ggttttttgt  | tttttgtttt | tttttttttc  | cagagggtca | 180  |
| tgtatatacct | acatcatggt | cagtttcaga  | gcagggtgt  | gccaccatct  | cagtgactcc | 240  |
| tggaataacta | aattggatct | ttgtagagga  | agaaaataac | acagttctag  | attttcccta | 300  |
| gctgttaatt  | agttttatgg | cataattaaa  | atagctcagg | agtaaaaaaca | aagtccagcc | 360  |
| ttaacagcct  | gttaagtctt | cttttcttat  | cttgaaaaga | ggtaagataa  | tgaagtttaa | 420  |
| acagttgaag  | aagttaaccg | gaaaggaatt  | aacatttcaa | ggccttgccg  | cttcttcctc | 480  |
| ctctttgtgat | atgaaccaga | attgagggaa  | aataggcagg | agggaaacca  | cactgaattt | 540  |
| tccagactct  | actgctgaaa | gacattgtat  | atttttattg | taatcatatg  | tgatgcaaga | 600  |
| taatatgtgct | catatctgaa | tcccaaaaaga | aaagaagatg | tttgtctgag  | catcccatga | 660  |
| ggtaagcagc  | cccatggaag | gaccagctgc  | atccagcaaa | gggctccagg  | tccctgacgt | 720  |
| agttgacggt  | gatggcagaa | gtaaatcttt  | gtattcttgc | agagactttg  | tttctgaaag | 780  |
| aggccaaaag  | tcatttcaaa | ctgaatctga  | cggataagat | agggggccata | gctgagaaaa | 840  |
| ataagtagcg  | aagccgatct | aaaccaaggt  | gtaactgtga | aatagtaacc  | atcttctttg | 900  |
| cacgttttcaa | aattggccct | ggacgccatc  | gcaagaggaa | aattccaaag  | ctgtgcagca | 960  |
| gcggcagtac  | cattggaaga | gtttacagcc  | taccaggact | acttagaagg  | ggatcatggt | 1020 |
| tatttgata   | tataaccctt | gattgggttg  | ttttaaaaat | aaacggttatt | atgttagtgt | 1080 |
| caaaaaaaaa  | aaaaaaa    |             |            |             |            | 1097 |

<210> 540

<211> 3466

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (3462)..(3462)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (3466)..(3466)

<223> n equals a,t,g, or c

<400> 540

|             |            |             |             |              |             |      |
|-------------|------------|-------------|-------------|--------------|-------------|------|
| acatgaacga  | ggttgcaagt | tagatgttaa  | gtagatcctc  | tccctgtgtt   | ttcactggg   | 60   |
| aatgctgggt  | tggtagtaat | cctccccaga  | tgtggaggac  | tgaagagggg   | skggccttgg  | 120  |
| gggggggtgtg | gttctggtct | gctcagcgca  | tggactgttc  | cctgtgtgtc   | tgtgctgtcc  | 180  |
| tgcaattggg  | ggtggtgtcc | aggggctcag  | caaggcatgt  | acacctgggc   | tgggggtgtg  | 240  |
| cagacgtgt   | cagtgaacg  | caccttccct  | cagagcccgg  | ttcctggaga   | atgtggcggc  | 300  |
| agcagaaaca  | gagaagcagg | ttgcgctggc  | ccagggcggg  | gcagagacac   | ttgccggggc  | 360  |
| catgcccaat  | gaggcgggtg | gacacccagg  | tgagttagtg  | ggtgagcagg   | cagagcctgc  | 420  |
| ctgttgyttt  | gttgccccac | agggggcatg  | gcaytgacag  | ctccttcccttt | cttttagat   | 480  |
| gcccgcgaac  | tctgggactc | cccagagaca  | gcccctgcag  | ccagaacacc   | ccagagccct  | 540  |
| gccccctgtg  | tctgtctccg | ggcccagcga  | agccttgcac  | cagagcccaa   | ggagccactg  | 600  |
| ataccagcaa  | gccccaaagg | tgagcccatc  | tgggagctcc  | ctacccgtgc   | acccaggctc  | 660  |
| tctattgggg  | acctggactt | ttcagatcta  | ggggaggatg  | aagaccagga   | catgctgaat  | 720  |
| gtagagtctg  | tggaggctgg | gaaagacatc  | ccagctccct  | cacccccact   | gcccctgtct  | 780  |
| tcgggagtac  | ccccccctcc | cccacttcca  | cctccccacc  | ccatcaaagg   | ccccttccca  | 840  |
| ccacctccac  | ctctacctct | ggctgccccct | cttccccatt  | cagtccctga   | cagctcagcc  | 900  |
| ctccccacta  | atagggaagc | agtaaaaactt | ttctggcggtg | agctgaagct   | ggctgggggc  | 960  |
| catggagtct  | ctgcaagccg | ctttgggccc  | tgcgccaccc  | tctgggcttc   | actggaccct  | 1020 |
| gtctcagtg   | acacggcccc | actggaacac  | ctctttgagt  | ctcgtgccaa   | agagggtgctg | 1080 |
| ccctccaaga  | aagctggaga | gggcccggcg  | acaatgacca  | cagtgtctgga  | ccccaaagcg  | 1140 |
| agcaacgcca  | tcaacatcgg | cctaaccaca  | ctgccacctg  | tgcattgtcat  | taaggctgct  | 1200 |
| ctgctcaact  | ttgatgagtt | tgctgtcagc  | aaggatggca  | ttgagaagct   | actgaccatg  | 1260 |

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| atgcccacgg  | aggaagagcg | gcagaagatt  | gaggaagcc   | agctggccaa  | ccctgacata  | 1320 |
| cccctgggccc | cagccgagaa | cttcctgatg  | actcttgcc   | ccattggcgg  | cctcgctgct  | 1380 |
| cgtctacaac  | tctgggcctt | caagctggac  | tatgacagca  | tggagcggga  | aattgctgag  | 1440 |
| ccactgtttg  | acctgaaagt | gggtatggaa  | cagctggtac  | agaatgccac  | cttccgctgc  | 1500 |
| atcctggcta  | ccctcctagc | ggtgggcaac  | ttcctcaatg  | gctcccagag  | cagcggcttt  | 1560 |
| gagctgagct  | acctggagaa | ggtgtcarag  | gtgaaggaca  | cggtgctg    | acagtcaactg | 1620 |
| ctacaccatc  | tctgctccct | agtgtccag   | acccggcctg  | agtcctctga  | cctctattca  | 1680 |
| gaaatccctg  | ccctgaccgg | ctgtgccaag  | gttagcacct  | gccagaatca  | accaaggccg  | 1740 |
| gacaaggcat  | gaggagcgct | gcttcctggg  | cctggctcct  | cccccttctc  | cccatttggg  | 1800 |
| ctgctgtgcc  | agggttggct | ccagccacct  | gggtgtgagc  | tatgccctct  | gccagaaatg  | 1860 |
| ctctttcttc  | tattggcctg | gccacacct   | ctcagtcctt  | gggtctgttt  | aactgccact  | 1920 |
| tccccagta   | aaccttctgc | tccccattca  | catcagatgg  | acttgtgtct  | cttgactag   | 1980 |
| tctatgagat  | ttggatgtct | gtgtccttag  | ggcccaagct  | ggccactctg  | gccagaagc   | 2040 |
| agcctcgggc  | catgtyttgt | ytacaggggtg | tggggggaca  | gtatgtgcac  | ccccttgctt  | 2100 |
| tctcaggtgg  | actttgaaca | gctgactgg   | aacctggggc  | agctggagcg  | ccggagccgg  | 2160 |
| gcagccgag   | agagcctkcg | gagcttgccc  | aagcatgagc  | tggccccagc  | cytgcgtgcc  | 2220 |
| cgcctcaccc  | acttcctgga | ccagtgtgcc  | cgccgtgttg  | ccatgctaag  | gatagtgcac  | 2280 |
| cgccgtgtct  | gcaataggtt | ccatgccttc  | ctgctctacc  | tgggctacac  | cccgcagggt  | 2340 |
| gcccgtgaag  | tgcgcacat  | gcagttctgc  | cacacgtgc   | gggaatttgc  | gcttgagtat  | 2400 |
| cggacttgcc  | gggaacgagt | gctacagcag  | cagcagaagc  | aggccacata  | ccgtgagcgc  | 2460 |
| aacaagaccc  | ggggacgcat | gatcacccag  | gtgggtgccc  | ttccaggtct  | tagtcttgac  | 2520 |
| tgccacctcc  | ttggtttcct | tgtctcctcc  | cagctcaccc  | ttcttctttc  | tccagacaga  | 2580 |
| gaagttctca  | ggtgtggctg | gggaagcccc  | cagcaacccc  | tctgtcccag  | tagcagttag  | 2640 |
| cagcgggcca  | ggccggggag | atgctgacag  | tcatgctagt  | atgaagagtc  | tgctgaccag  | 2700 |
| caggcctgag  | gacaccacac | acaatcgccg  | cagcagaggc  | atggtccaga  | gcgctcccc   | 2760 |
| aatcatgccc  | acagtggggc | cctccactgc  | atccccagaa  | gaacccccag  | gctccagttt  | 2820 |
| acccagtgat  | acatcagatg | agatcatgga  | ccttctgggtg | cagtcagtga  | ccaagagcag  | 2880 |
| tctcgtgcc   | ttagctgcta | gggaacgcaa  | gcgttcccgc  | ggcaaccgca  | agtcttgtaa  | 2940 |
| gtaaccccc   | acaatccac  | tgcccacctg  | aaccccatca  | acccctcca   | accctgctct  | 3000 |
| gtccctgcag  | tgagaaggac | ggtgaagagt  | gggctcggag  | atgacctggg  | gcaggcactg  | 3060 |
| ggctaagca   | tgccgtcctg | cctggagggtg | tgaagggtct  | gtatcccggg  | aatctatctg  | 3120 |
| gacctggac   | tgcagtgcag | gagatgacag  | agtgaggagg  | gcccagaga   | gaattctggc  | 3180 |
| cccagaactc  | tgtgcccgag | agccatgcct  | tgagcagtat  | tagccgtgtg  | tgtatgcagt  | 3240 |
| tgagtgtgtg  | tgtatgtgtg | tgtgtgcatg  | catatgcatg  | tgcagtgtgtg | tgagctcctt  | 3300 |
| gaacgcacgg  | agcaaaataa | aattttctta  | gctaatacaa  | aaaaaaaaaa  | aaaaaaaaaa  | 3360 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 3420 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | gngggg      |             | 3466 |

<210> 541  
 <211> 1238  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 541  |            |            |             |            |             |     |
| ccacgcgtcc | gcccacgcgt | ccgcccacgc | gtccggctgc  | ggcgcgagg  | cgccggggct  | 60  |
| ggcgcggctc | ctgttgctcc | tcgggctctc | ggccggcggg  | ccgcgcgcgg | caggtgcagc  | 120 |
| gaagatgaag | gtgggtggag | agcccaacgc | gtttgggggtg | aacaaccctg | tcttgctca   | 180 |
| ggccagtcgc | ctccaggcca | agagggatcc | ttcaccctg   | tctggaccgg | tgcattctctt | 240 |
| ccgactctcg | ggcaagtgtc | tcagcctggg | ggagtcacag  | tacaagtatg | agttctgccc  | 300 |
| gttccacaac | gtgaccagc  | acgagcagac | cttcgcgtgg  | aacgcctaca | gtgggatcct  | 360 |
| cggcatctgg | cacgagtggg | agatcgccaa | caacaccttc  | acgggcatgt | ggatgaggga  | 420 |
| cggtgacgcc | tgccgttccc | ggagccggca | gagcaagggtg | ggctggcgt  | gtggaaaaag  | 480 |
| caaccggctg | gcccattgtg | ccgagccgag | cacctgcgtc  | tacgcgtga  | cgttcgagac  | 540 |
| ccccctcgtc | tgccaccccc | acgccttget | agtgtaccca  | accctgccag | aggccctgca  | 600 |
| gcggcagtg  | gaccaggtag | agcaggacct | ggccgatgag  | ctgatcacc  | cccagggcca  | 660 |
| tgagaagttg | ctgaggacac | tttttgagga | tgctggctac  | ttaaagaccc | cagaagaaaa  | 720 |
| tgaaccacc  | cagctggagg | gaggtcctga | cagcttgggg  | tttgagaccc | tggaaaactg  | 780 |

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| caggaaggct | cataaagaac  | tctcaaagga  | gatcaaaagg  | ctgaaagggt | tgctcaccca  | 840  |
| gcacggcatc | ccctacacga  | ggcccacaga  | aacttcaaac  | ttggagcact | tgggccacga  | 900  |
| gacgcccaga | gccaaagtctc | cagagcagct  | gcgggggtgac | ccaggactgc | gtggggagttt | 960  |
| gtgaccttgt | ggtgggagag  | cagagggtgga | cgcggccgag  | agccctacag | agaagctggc  | 1020 |
| tggtaggacc | cgcagggacc  | agctgaccag  | gcttgtgctc  | agagaagcag | acaaaacaaa  | 1080 |
| gattcaaggt | tttaattaat  | tcccatactg  | ataaaaaataa | ctccatgaat | tctgtaaacc  | 1140 |
| attgcataaa | tgctatagtg  | taaaaaaatt  | taaacaagtg  | ttaactttta | acagttcgct  | 1200 |
| acaagtaaat | gattataaat  | actaaaaaaaa | aaaaaaaaa   |            |             | 1238 |

<210> 542  
 <211> 1304  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| <400> 542   |            |             |            |             |             |      |
| nctggtacca  | aagcaagttt | tctactgagc  | tctcatgaaa | gacctcagct  | ctcttgtgga  | 60   |
| tttagaatcc  | tgacgcagcc | caccatctaa  | gagcaagagc | caaagatggt  | tgtcttgctc  | 120  |
| tatgttacaa  | gttttgccat | ttgtgccagt  | ggacaacccc | ggggtaatca  | gttgaagga   | 180  |
| gagaactact  | cccccaggta | tatctgcagc  | attcctggct | tgccctggacc | tccagggccc  | 240  |
| cctggagcaa  | atggttcccc | tgggccccat  | ggtcgcatcg | gccttccagg  | aagagatggt  | 300  |
| agagacggca  | ggaaaggaga | gaaagggtgaa | aagggaactg | caggtttgag  | aggtaagact  | 360  |
| ggaccgctag  | gtcttgccgg | tgagaaaggg  | gaccaaggag | agactgggaa  | gaaaggaccc  | 420  |
| ataggaccag  | agggagagaa | aggagaagta  | ggtccaattg | gtcctcctgg  | accaaaggga  | 480  |
| gacagaggag  | aacaagggga | cccggggctg  | cctggagttt | gcagatgtgg  | aagcatcgct  | 540  |
| ctcaaatccg  | ctttttctgt | tggcatcaca  | accagctacc | cagaagaaag  | actacctatt  | 600  |
| atatttaaca  | aggtcctctt | caacgaggga  | gagcactaca | accctgccac  | agggaaagttc | 660  |
| atctgtgctt  | tcccagggat | ctattacttt  | tcttatgata | tcacattggc  | taataagcat  | 720  |
| ctggcaatcg  | gactggtaca | caatgggcaa  | taccggataa | agaccttcga  | cgccaacaca  | 780  |
| ggaaaccatg  | atgtggcttc | gggggtccaca | gtcatctatc | tgacgccaga  | agatgaagtc  | 840  |
| tggctggaga  | ttttcttcac | agaccagaat  | ggcctcttct | cagacccagg  | ttgggcagac  | 900  |
| agcttattct  | ccgggtttct | cttatacgtt  | gacacagatt | acctagattc  | catataagaa  | 960  |
| gatgtgaat   | tgtgatcagg | accaagatcc  | ctgtggtaaa | cactctgatt  | gaatctgggg  | 1020 |
| ttccagaagg  | tggacaagc  | aggaatggga  | tccaaagaga | ctcccactca  | gattctaaag  | 1080 |
| catttaaaaga | caattctagc | agaattttatc | aaaacaagat | gaaacacaga  | aaagttgaaa  | 1140 |
| ccacaacaaa  | atgaattcta | ttaaagaata  | gccccagata | taaattctct  | tgaaagcaat  | 1200 |
| gttcataaat  | atttaagcaa | attaagagaca | atgttaacaa | atcttctatt  | aatgcccctg  | 1260 |
| agtgataaaa  | ccagttggca | ataatattgc  | cttattaaat | cttc        |             | 1304 |

<210> 543  
 <211> 1926  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 543  |            |            |            |             |            |     |
| gaattccccg | ggctaaaagc | ttctaaccac | tagcagtggg | tgtaaatttg  | gatttcaaag | 60  |
| aacagactca | tcgtgctgac | actttctgtc | tggtaggaaa | ggatatggct  | tctcccagtc | 120 |
| ttgggcttct | gagcagacac | ctaggttcct | ggaaggttct | gggctgacag  | ggcaggtgtt | 180 |
| agtatggcca | cagtggggct | gagttgaaa  | aaagagctgg | tgatcttgct  | tgtggggcct | 240 |
| ggagctgcag | ccctccagcc | cactcatact | tgctgttccc | tacctagcct  | cagctctctt | 300 |
| ttccccctta | ggttgaatac | aaagacttcc | caaaaaacaa | caagaacgaa  | tttgtatctc | 360 |
| ttatcaattg | ctcctctcag | ccacctctga | tcagccatgg | tatcggcaagg | atgtggagt  | 420 |
| cctgccatga | tatggctgcg | ctgaacatct | taaagttgct | gtctgagttg  | gaccaacaaa | 480 |

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| gtacagagat | gccaaagaaca | ggaaacggac  | caatgtctgt | gtgtgggagg  | tgctgaacct  | 540  |
| tttctggcca | tgaaccatta  | taaaatccca  | acatatatac | tgaaaatact  | gaaactgctt  | 600  |
| tgaaaatttg | gaattttctga | tacctccagt  | gggccgagag | acacgggtggg | taaaggatgt  | 660  |
| gggcagcagc | aggggaagaca | acagaaacac  | aaggaggcgg | ctgtggccgg  | gctggactgt  | 720  |
| gcggggggtt | gttgtgatgg  | ccactcgggt  | acctggcggg | ccctacgcaa  | tagcagctgc  | 780  |
| ctgtggggaa | gaggggctgc  | ccagccagct  | ggttctcccg | ggaaccagc   | agatccacac  | 840  |
| cctgggcacc | tccgtgtttg  | gtcttttttt  | tcccctgtgt | gaaagaagaa  | acggcacgac  | 900  |
| cccttctcaa | gctggctcac  | tcagacacat  | tgggacaaac | cctggacagc  | catgccagag  | 960  |
| agaggccttt | gaccggcccc  | agagctaaaa  | gcaccagaga | aaatcaaattg | cttccctactc | 1020 |
| agcgtgaccc | aactttttcta | gtgtgccacg  | gccccaccac | ctcctgcagt  | acccacacca  | 1080 |
| tcaccactgc | tttctcttcc  | aacagtgatc  | tgtattctta | gtttcattat  | tttcttttga  | 1140 |
| ttgatatgac | actatataaa  | attttcattt  | gagaatttct | caattgtatc  | tagttaaata  | 1200 |
| gcacagtttg | gaaacttgct  | tgagactgac  | tttatcaaa  | atctaaccgg  | caaagatcat  | 1260 |
| atccatgtgt | atgtggttag  | acatttttat  | ttcattgact | aaccaggac   | agtttcagtg  | 1320 |
| atgcaaattg | tgtgccctct  | ggttcagctg  | aaacagtcct | ggactttcaa  | aaaccttgaa  | 1380 |
| taagttctcc | acagttgtat  | aaattggaca  | atttaggaat | tttaaaacttt | agatgatcat  | 1440 |
| ttggttccat | ttttatttca  | tttttatttt  | tgtaaatgca | aacaggactt  | aaatgaactt  | 1500 |
| tgatctctgt | tttaaagatt  | attaaaaaac  | attgtgtatc | tatacatatg  | gctcttgagg  | 1560 |
| acttagcttt | cactacacta  | caggatatga  | tctccatgta | gtccatataa  | acctgcagag  | 1620 |
| tgattttcca | gagtgtctga  | tactgttaat  | taattctcca | ttagggctga  | aaagaatgac  | 1680 |
| ctacgtttct | gtatacagct  | gtgttgcttt  | tgatgtttgt | ttactgtaca  | cagaagtgtg  | 1740 |
| tgcactgagg | ctctgcgtgt  | ggtccgtatg  | gaaagcctgg | tagccctgcg  | agttaagtac  | 1800 |
| tgcttccatt | cattgtttac  | gctggaattt  | ttctcccat  | ggaatgtaag  | taaaacttaa  | 1860 |
| gtgtttgtca | tcaataaatg  | gtaataactaa | aaaaaaaaaa | aaaaaaaaaa  | actcgagggg  | 1920 |
| gggccc     |             |             |            |             |             | 1926 |

<210> 544  
 <211> 1773  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 544  |             |             |             |             |            |      |
| cccggggttg | gcatcagctt  | gggcaggtgt  | ggggctcat   | tggggcggcc  | gtggtgagga | 60   |
| accctggact | ctcagcatca  | caagaggcaa  | caccaggagc  | caacatgagc  | tcggggactg | 120  |
| aactgctgtg | gcccggagca  | gcgctgctgg  | tgctgtttgg  | ggtggcagcc  | agtctgtgtg | 180  |
| tgcgctgctc | acgcccaggt  | gcaaagaggt  | cagagaaaaa  | ctaccagcag  | agaagtctgc | 240  |
| gtgaggacca | acagagcttt  | acggggtccc  | ggacctactc  | cttggtcggg  | caggcatggc | 300  |
| caggaccctt | ggcggaactg  | gcacccacaa  | ggaaggacaa  | gctgttgcaa  | ttctaccca  | 360  |
| gcctggagga | tccagcatct  | tccaggtacc  | agaacttcag  | caaagggaagc | agacacgggt | 420  |
| cggaggaagc | ctacatagac  | cccattgcca  | tggagtatta  | caactggggg  | cggttctcga | 480  |
| agccccaga  | agatgatgat  | gccaattcct  | acgagaatgt  | gctcatttgc  | aagcagaaaa | 540  |
| ccacagagac | aggtgcccg   | caggagggca  | taggtggcct  | ctgcagaggg  | gacctcagcc | 600  |
| tgtcactggc | cctgaagact  | ggccccactt  | ctggctctct  | tccctctgcc  | tccccggag  | 660  |
| aagatgagga | atctgaggat  | tatcagaact  | cagcatccat  | ccatcagtgg  | cgcgagtcca | 720  |
| ggaaggtcat | ggggcaactc  | cagagagaag  | catcccctgg  | cccggtgga   | agcccagacg | 780  |
| aggaggacgg | ggaaccggat  | tacgtgaatg  | gggaggtggc  | agccacagaa  | gcctagggca | 840  |
| gaccaagaag | aaaggagcca  | aggcaaagag  | ggaccactgt  | gctcatggac  | ccatcgctgc | 900  |
| cttccaagga | ccatttccca  | gagctactca  | acttttaagc  | ccctgccatg  | gttgctcctg | 960  |
| gaaggagaac | cagccaccct  | gaggaccacc  | tggccatgcg  | tgcacagcct  | gggaaaagac | 1020 |
| agttactcac | gggagctgca  | ggcccgtcac  | caagccctct  | cccgaaccag  | gtttgtggg  | 1080 |
| gcaggcacct | ggtaccaagg  | gtaacccggc  | tccttggtatg | gacggatgcg  | caggatttga | 1140 |
| gataagctgt | ccccagctcc  | ccataacaaa  | accactgtcc  | aacactggta  | tctgtgttct | 1200 |
| tttgtgctat | gaattttggat | tcctaattgc  | tattgtttgg  | tgctgggggt  | ttaaatgatt | 1260 |
| gataagcttg | tacagttaac  | ttatagaggg  | ggagccatat  | ttaacattct  | ggatttcaga | 1320 |
| gtagagattt | ctgtgtttgc  | tcctagaaaag | cattacatgt  | agttttatttc | agcatccttg | 1380 |
| ttgggtgggg | ccctggctct  | cttccccctt  | ggtgggacct  | cccctttctt  | tgggcttcag | 1440 |
| ttcactcagg | aagaaatgag  | gctgtcgcca  | tctttatgtg  | cttccatggg  | aaatgtcact | 1500 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| tgctacagac | aatagtgcac | gagagtctag | agaagtagtg | accagaacag  | ggcagagtag | 1560 |
| gtccctcca  | tggccctgaa | tcctcctctg | ctccagggct | ggcctctgca  | gagctgatta | 1620 |
| aacagtgttg | tgactgtctc | atgggaagag | ctggggccca | gagggacctt  | gagtcagaaa | 1680 |
| tggtgccaga | aaaagtatct | cctccaacca | aaacatctca | ataaaacccat | tttagttgaa | 1740 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaa        |             |            | 1773 |

<210> 545

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 545

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| gcgcactgga | tggctggggc | cgcccggtac | gccgcgcgcg  | ccgcgcgacg | tacgtggcat  | 60   |
| gcctggatgt | ccctgccctg | gctgtggcat | ggcggggccca | aggctcctct | tcctcrtctg  | 120  |
| ccttgccctg | gagctcttgg | gaagggctgg | gggttccacg  | ccggccctcc | ggagccgggg  | 180  |
| gactgagcag | gcctgtcgcc | tggacaacaa | ggaaagcgag  | tcctgggggg | ctctgctgag  | 240  |
| cgagagcg   | ctggacacct | ggatctgctc | cctcctgggt  | tcctcatggg | tggggctcag  | 300  |
| tggggctctc | ccgttgcttg | tcattcccct | agagatgggg  | accatgctgc | gctcagaagc  | 360  |
| tggggcctgg | cgctgaagc  | agctgctcag | cttcgcctctg | gggggactct | tgggcaatgt  | 420  |
| gtttctgcat | ctgctgccc  | aagcctgggc | ctacacgtgc  | agcgcagcc  | ctggtggtga  | 480  |
| ggggcagagc | ctgcagcagc | agcaacagct | ggggctgtgg  | gtcattgctg | gcacccctgac | 540  |
| cttctggcg  | ttggagaaga | tgttcctgga | cagcaaggag  | gaggggacca | gccaggcccc  | 600  |
| caacaaagac | cccactgctg | ctgccgcgcg | ctcaatgga   | ggccactgtc | tggcccagcc  | 660  |
| ggctgcagag | cccgccctcg | gtgccgtggt | ccggagcatc  | aaagtcagcg | gctacctcaa  | 720  |
| cctgctggcc | aacaccatcg | ataacttcac | ccacgggctg  | gctgtggctg | ccagcttcct  | 780  |
| tgtgagcaag | aagatcgggc | tcctgacaac | catggccatc  | ctcctgcatg | agatccccc   | 840  |
| tgaggtgggc | gactttgcc  | tcctgctccg | ggccgcttt   | gaccgatgga | gcgcagccaa  | 900  |
| gctgcaactc | tcaacagcgc | tggggggcct | actgggcgct  | ggcttcgcca | tctgtaccca  | 960  |
| gtcccccaag | ggagtagagg | agacggcagc | ctgggtcctg  | cccttcacct | ctggcggtct  | 1020 |
| tctctacatc | gccttggtga | acgtgctccc | tgacctcttg  | gaagaagagg | acccgtggcg  | 1080 |
| ctccctgcag | cagctgcttc | tgctctgtgc | gggcactcgtg | gtaatgggtg | tggtctcgct  | 1140 |
| cttctgtgat | taactttccc | tgatgccgac | gcccctgccc  | cctgcagcaa | taagatgctc  | 1200 |
| ggattcactc | tgtgaccgca | tatgtgagag | gcagagaggg  | cgagtggctg | cgagagagaa  | 1260 |
| tgagcctccc | gccagacagg | agggaggtac | tcagctggcc  | cactccacag | ccaggcctgg  | 1320 |
| ccctgccctt | caccgtggat | gttttcagaa | gtggccatcg  | agaggtctgg | atgggtttat  | 1380 |
| agcaactttg | ctgtgattcc | gtttgtatct | gtaaatatct  | gttctataga | taagatacaa  | 1440 |
| ataaatatta | tccacataaa | aaaaaaaaaa | aaaaaactcg  | a          |             | 1481 |

<210> 546

<211> 1147

<212> DNA

<213> Homo sapiens

<400> 546

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ggcacgagct | aggagcctcc | taatgcagtc | ttctgcacag | tcctgggggac | tgactgactg | 60  |
| aatcacacct | ctggggctgg | gggtgctga  | catgtgtgcc | tttccttggc  | tgcttcttct | 120 |
| cctgctgctc | caggagggca | gccaaaggag | actctggaga | tggtgtggat  | ccgaggaagt | 180 |
| ggttgcggtc | cttcaggagt | ccatcagcct | ccccctggaa | ataccaccag  | atgaagaggt | 240 |
| tgagaacatc | atctggctct | ctcacaaaag | tcttgccact | gtggtgccag  | ggaaagaggg | 300 |
| acatccagct | accatcatgg | tgaccaatcc | acactaccag | ggccaagtga  | gcttcctgga | 360 |
| ccccagctat | tcctgcata  | tcagcaatct | gagctgggag | gattcagggc  | ttttaccaag | 420 |
| ctcaagtcaa | cctgagaaca | tcccagatct | ctaccatgca | gcagtacaat  | ctatgtgtct | 480 |
| accgatggct | gtcagagccc | cagatcactg | tgaactttga | gagttctggg  | gaaggtgcct | 540 |
| gcagtatgtc | cctggtgtgc | tctgtggaga | aggcaggcat | ggatatgacc  | tacagctggc | 600 |
| tctcccgggg | ggatagcact | tatacattcc | atgaaggccc | tgtcctcagc  | acatcctgga | 660 |
| ggccggggga | cagtgccttc | tcctacacct | gcagagccaa | caaccccatc  | agcaacgtca | 720 |
| gttcttgccc | catcctgat  | gggcccttct | atgcagatcc | taactatgct  | tctggaagc  | 780 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| cttcaacagc  | cttctgcctc | ctggccaagg | gattgctcat | cttcttgctc | ttggtaattc | 840  |
| tggccatggg  | actctgggtc | atccgagtc  | agaaaagaca | caaaatgcc  | aggatgaaga | 900  |
| aactcatgag  | aaacagaatg | aaattgagga | aggaggcaaa | gcctggctcc | agccctgcct | 960  |
| gactgctcct  | tgggaaccc  | agtcctgagc | ttggtttctt | cccagcacc  | agagaatcct | 1020 |
| tcctcagctc  | tcttctttcc | aggggaagga | ggtgctcagg | ggtgggtatc | cagagagcca | 1080 |
| tactttctgag | ggaagactgg | ctggcaataa | agtcaaatta | agtgaccacc | aaaaaaaaaa | 1140 |
| aaaaaaa     |            |            |            |            |            | 1147 |

<210> 547  
 <211> 1341  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 547   |             |             |             |             |            |      |
| caggaattcg  | gcacgagagt  | ctgtggctcct | ctgtatctca  | actttttcat  | cttaaaaaaa | 60   |
| caaatagggg  | tgtgtgtgtg  | gctgggtggtc | ataaggctcct | ttctggctct  | aataacctga | 120  |
| gctttctgta  | tgaagctggg  | acccttagag  | cctcaggatg  | atcctctgtt  | tgtttgtgaa | 180  |
| gccccaatca  | ggtgctaagc  | accatagtgg  | cacttagctg  | aagctcctct  | gtaactcctg | 240  |
| tggggccctgc | cttggcccacc | cccagacagct | gctgcagtgc  | tcctgagcag  | cacaggcctg | 300  |
| atggagcttc  | tggagaagat  | gctggccctc  | accttggcaa  | aggcagatc   | tcccaggact | 360  |
| gcactcctct  | gctctgcctg  | gctgctcaact | gcctccttct  | ctgcccagca  | gcacaagggc | 420  |
| agtttgcagg  | ttcaccagac  | actctctgtg  | gaaatggacc  | aagtattgaa  | ggctctcagc | 480  |
| tttccaaaga  | aaaaggctgc  | actactctca  | gctgccatct  | tatgcttcct  | gcggacagcc | 540  |
| ctgcgacaaa  | gcttttctc   | tgccttggtg  | gccctgggtg  | cctcaggggc  | ccagccactg | 600  |
| ccagccacca  | aggacactgt  | cctagctcca  | ctgcgaatgt  | cgcaagtccg  | gtccctggtc | 660  |
| attgggctgc  | agaacctcct  | ggtgcagaag  | gacctctat   | tgtcccaggc  | ctgtgttggc | 720  |
| tgcttgagg   | ccttgcttga  | ctacctggat  | gcccggagcc  | cgacattgc   | tctccacgtg | 780  |
| gcctcccagc  | cttggaaatcg | gtttttgctg  | tttacctct   | tgatgctgg   | agagaattcc | 840  |
| ttcctcagac  | ctgagatttt  | gaggctcatg  | accctgttta  | tgcggtaccg  | gagtagcagt | 900  |
| gtcctctctc  | atgaagaggt  | gggtgatgtt  | ctgcaagggt  | tggctttggc  | tgacctgtct | 960  |
| acctctctga  | acaccacact  | ccaggccctg  | catggcttct  | tccagcagct  | ccagagcatg | 1020 |
| ggacacctgg  | ctgaccacag  | catggcccag  | accctgcagg  | cctccttgga  | gggccttccc | 1080 |
| cctagcacct  | cctcaggcca  | gccacccctg  | caggacatgc  | tctgcctggg  | aggggtggct | 1140 |
| gtatccctgt  | cccacatcag  | aaactgatcc  | tcaggadtg   | aaggcccgaga | agtggagaga | 1200 |
| gaatgagacc  | tggagacaaa  | gggcataatt  | gttggggaaa  | tggatgacag  | ctgaagctat | 1260 |
| tcatatggag  | ccatatactc  | tattgttgaa  | atagaataag  | gaaataaaat  | gatacactca | 1320 |
| cataaaaaaa  | aaaaaaaaaa  | a           |             |             |            | 1341 |

<210> 548  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 548   |             |            |            |            |            |     |
| tgcacccacg  | cgctcgggtca | gccagtcgca | tccagccatg | acagccttct | gctccctgct | 60  |
| cctgcaagcg  | cagagcctcc  | taccaggagc | catggcagcc | cccaggaca  | gcctcagacc | 120 |
| aggggaggaa  | gacgaaggga  | tgcagctgct | acagacaaag | gactccatgg | ccaagggagc | 180 |
| tagggccggg  | gccakccgcg  | gcagggtctg | ctggggtctg | gcctacacgc | tgctgcacaa | 240 |
| cccaaccctg  | caggtcttcc  | gcaagacggc | cctgttgggt | gccaatgggt | cccagccctg | 300 |
| arggcaggga  | akgtcaaccc  | acctgcccac | ctgtgctgag | gcattgttct | gcctaccatc | 360 |
| ctcctccctc  | cccggctctc  | ctcccagcat | cacacagcc  | atgcagccag | caggtcctcc | 420 |
| ggatcacgyt  | ggttkggtgg  | aggtctgtct | gcaactggag | cctcargarg | gctctgctcc | 480 |
| accactttgg  | ctatgggaga  | gccagcaggg | gttctggaga | aaaaaactgg | tgggttaggg | 540 |
| ccttgggtcca | ggagccagtt  | gagccagggc | agccacatcc | aggcgtctcc | ctaccctggc | 600 |
| tctgccatca  | gccttgaagg  | gcctcgatga | agccttctct | ggaaccactc | cagcccagct | 660 |
| ccacctcagc  | cttggccttc  | acgctgtgga | agcagccaa  | gcacttctct | accccytcag | 720 |
| cgccacggac  | ctytytgggg  | agtggccgga | aagctcccs  | gcctytggcc | tgcagggcag | 780 |

|           |     |            |     |          |            |            |            |     |
|-----------|-----|------------|-----|----------|------------|------------|------------|-----|
| cccaagtc  | cat | gactcagacc | agg | gtcccaca | ctgagctgcc | cacactcgag | agccagatat | 840 |
| ttttgtag  | tt  | ttatkcctt  | tgg | ctattat  | gaaagagg   | tt         | ctgcaataaa | 900 |
| ctgttcctg | ag  |            |     |          |            |            |            | 912 |

<210> 549  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

|            |    |            |            |        |            |            |            |             |     |
|------------|----|------------|------------|--------|------------|------------|------------|-------------|-----|
| <400> 549  |    |            |            |        |            |            |            |             |     |
| ggcacgag   | ta | cagctttg   | cc         | at     | catagat    | acataccctt | catcctgtgg | cccattttctg | 60  |
| acctcttca  | aa | cgacctgatt | gctt       | gtg    | cg         | tcctt      | gtggg      | agccgtgggc  | 120 |
| gaagtcgg   | cg | atccatgaat | ctcc       | actact | tactt      | gtctgt     | gatccttatt | gg          | 180 |
| gagttttt   | gc | ttttatcgat | gtgt       | gtcttc | aaagaa     | acca       | cttcagaggc | aagaaggcca  | 240 |
| aaaagcatat |    | gctggttcct | cctcc      | aggaa  | agg        | agccagcag  | ggcaagg    | ggac        | 300 |
| cagaacccgc |    | caagccacca | gaacct     | ggca   | agccaccagg | gccagcaaag | ggaaagaaat |             | 360 |
| gacttggagg |    | aggctcctgg | tgtctg     | aaac   | ggcagtgat  | tttacagcaa | tatgtttcca |             | 420 |
| ctctcttct  |    | tgtcttcttt | ctggaat    | gg     | tttcttttcc | at         | tttccatta  | ccacctttgc  | 480 |
| ttggaaaaga |    | atggattaat | ggattctaaa | agccta | aaaaa      | aaaaaaaaa  | aaaaaaaaa  |             | 540 |
| aaaaaaaaa  |    | aaaaaaaaa  | aaa        |        |            |            |            |             | 563 |

<210> 550  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (407)..(409)  
 <223> n equals a,t,g, or c

|            |    |            |        |            |     |             |            |            |     |
|------------|----|------------|--------|------------|-----|-------------|------------|------------|-----|
| <400> 550  |    |            |        |            |     |             |            |            |     |
| gaattcgg   | ca | cgagtg     | cagc   | ttcatttt   | tg  | gctgccttag  | ccatgaagct | ccttttgctg | 60  |
| actttgact  | g  | tgtgtg     | tgt    | cttatccc   | cag | ctgactccag  | gtggcaccca | aagatgctgg | 120 |
| aatctttat  | g  | gcaa       | atgccg | ttacagat   | gc  | tccaagaagg  | aaagagtcta | tgtttactgc | 180 |
| ataaataata |    | aaatgt     | gctg   | cgtgaagccc |     | aagtaccagc  | caaaagaaag | gtggtggcca | 240 |
| ttttaactgc |    | tttgaagcct |        | gaagccatga |     | aaatgcagat  | gaagctccca | gtgtttccc  | 300 |
| acactccatc |    | aataaacacc |        | tctggctgaa |     | aaaaaaaaa   | aaaaaaaaa  | araraaaaaa | 360 |
| aagaaaaaaa |    | actcaagggg |        | gggcccggta |     | cccatttcgcc | ctatgtnnnt | cgt        | 413 |

<210> 551  
 <211> 1306  
 <212> DNA  
 <213> Homo sapiens

|            |    |            |          |            |             |            |             |            |     |
|------------|----|------------|----------|------------|-------------|------------|-------------|------------|-----|
| <400> 551  |    |            |          |            |             |            |             |            |     |
| gaagctcg   | aa | attaaccctc | ad       | aaaaggga   | acaaaagctg  | gagctccacc | gcgggtgggcg | 60         |     |
| ggcgcgtct  | a  | gaactagtgg | atcccccg | gg         | ctgcagg     | aat        | tcggcasrrg  | gcaagctgag | 120 |
| atcttcaac  | g  | cttccataca | aa       | gagtaccta  | gatagggagt  | gggaggaaga | gccactcagg  |            | 180 |
| accaagactc |    | tgccagcagc |          | tctccttgcc | agggagtcta  | catggctctg | aatcgtgtg   |            | 240 |
| tctttctttc |    | ccagtacggc |          | caccttctat | ttccttcttc  | ctagctgcct | atttgaatg   |            | 300 |
| ccaccggaag |    | tcaagggccc |          | ctcaggcaag | gagaatatgca | cttcataaag | agaaggatga  |            | 360 |
| tgaccccgag |    | ggtgtgtggc |          | cctgtgctgc | gcccattgca  | gtctctcagc | tcagctgctc  |            | 420 |
| ctcctcctac |    | ctgggtgctg |          | cctgcgagga | atgggtgtgct | cacgctgtgg | gacctggcca  |            | 480 |
| aaggattccc |    | tcttggggtc |          | gctgctcttc | ctcaaggatg  | tttctgcca  | agcattcact  |            | 540 |
| tcttaaaata |    | tttctcggtc |          | cacaaaggac | agaatatgta  | tcctgaaggt | caagtgaat   |            | 600 |
| cccaaatag  |    | aatgtgtgg  |          | ctgtgcacag | acgcctccct  | ccatctgtg  | gaggctagcg  |            | 660 |



|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| ggacccaagg | accacccatc  | agtgtgcttg | ttgagatgtg | ctcatctttt | ccaagaatgg | 720  |
| ctctgtgtgc | cttatggatg  | tggccaagcg | tgaaatcatc | tgtgcctttg | cccctccggg | 780  |
| agccttttct | ctggagggtcc | cctggaagcc | agtgtttgct | gtgtctccag | accatccatg | 840  |
| tttcctgctc | ogaggcctgc  | ccactcctgg | aaaatatctc | aaaaaattgt | accattcctc | 900  |
| aaagggactt | ggataacatg  | gccttccccc | aagcactgcc | actggagaag | agatgtgagc | 960  |
| gtttcctcca | gaagagctat  | cggaagctgg | agaagaaccc | agagaaggag | gaggagcact | 1020 |
| gggcccggct | tcagagggtac | tccttgctgc | tccagagaga | gacttcaag  | aagtgaggct | 1080 |
| gccaccgccc | tgggatctct  | gaaaaggagg | tttcagccac | gaggcagctg | cttccaggac | 1140 |
| actgaggcca | agagaaatgt  | aacagarcca | cagctccaca | ggcctgcact | cggagtctgg | 1200 |
| ggcctctgca | gaaccagcaa  | ggggaaaagt | ataatctggg | ggaccttcaa | ccactaagcc | 1260 |
| tcttgtcaga | accctcaggc  | agggcagatg | tgtcaccaaa | taaaac     |            | 1306 |

<210> 552

<211> 754

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 552

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| natcctccac | atccttccat | ggctctgaag | aataaattca | gtgttttatg | gatcttgggt | 60  |
| ctgtgttttg | tagccactac | atcttccaaa | atcccatcca | tactgaccc  | acactttata | 120 |
| gacaactgca | tagaagccca | caacgaatgg | cgtggcaaa  | tcaaccctcc | cgcggccgac | 180 |
| atgaaataca | tgatttggga | taaaggttta | gcaaagatgg | ctaaagcatg | ggcaaaccag | 240 |
| tgcaaatttg | aacataatga | ctgtttggat | aaatcatata | aatgctatgc | agcttttgaa | 300 |
| tatgttggag | aaaatatctg | gttaggtgga | ataaagtcac | tcacaccaag | acatgccatt | 360 |
| acggcttggg | ataatgaaac | ccaattttat | gattttgata | gtctatcatg | ctccagagtc | 420 |
| tgtggccatt | atacacagtt | agtttggggc | aattcatatt | atgtcggttg | tgcagttgca | 480 |
| atgtgtccta | accttggggg | agcttcaact | gcaatatttg | tatgcaacta | cggacctgca | 540 |
| ggaaattttg | caaatatgcc | tccttacgta | agaggagaat | cttgctctct | ctgctcaaaa | 600 |
| gaagagaaat | gtgtaaagaa | cctctgcaaa | aatccatttc | tgaagccaac | ggggagagca | 660 |
| cctcagcaga | cagcctttaa | tccattcagc | ttaggttttc | ttcttctgag | aatcttttaa | 720 |
| tgtcatttat | atacaaaa   | aattctcaaa | tgtt       |            |            | 754 |

<210> 553

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 553

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gcatgatcct  | gtggaacaca  | gtttgggata  | atagatgga  | attaagacac | caccgagata | 60  |
| cgggctgtga  | ggttcatacc  | gtgctgatag  | cactcgtggg | gtctgtgaaa | tgtgggtaag | 120 |
| acattcaaac  | ctggttttga  | tactggaaac  | tcttccttta | aaactgtgac | catgatttca | 180 |
| ttcagcccct  | ccacaccctt  | atgtctgcct  | tgtttcagag | tgagttttct | atggagcctg | 240 |
| tggccctttt  | gcagcccacc  | tgggtggcttc | ttaatgtaac | tcttcccctg | gtcgcctgga | 300 |
| gtggaccact  | catctgcagg  | cctctcctgc  | atggggaggg | taggcaggga | gcagcatgtc | 360 |
| tgcagggggt  | aacctttgct  | cttctgtcag  | gcgaggccca | ggctgcacca | gccacctgcc | 420 |
| acatgggtgac | agtgccacgg  | gccctgcgta  | tggcccctgc | aaccgtgctc | tggcgggcac | 480 |
| acctggctgc  | tgcaggccaa  | ggccgctgtt  | cagtgaagag | tcccatgttt | agtatggact | 540 |
| aaagtcccat  | gttttagccay | tgccccagtc  | tcccgtgacc | ccagaaacca | ggtcactgga | 600 |
| ccacagtgcc  | agatcctcat  | cacgccggtg  | agcacctaga | agtgagaaca | ctgtattcct | 660 |
| acaatgtaca  | cttggatatt  | tctccttatt  | tagtttctag | tgaacaaaat | caagtaagga | 720 |
| actatcttta  | gttttagatgg | aattatttgt  | ttttaattgt | tgccttattc | atctatatag | 780 |
| ctaataatttc | aagataagta  | atgaacaaaa  | cctgtctaaa | ccttttgttt | ccaatgaatg | 840 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aaagtcatgc | actttattta | taggctctat | gttttggtct | ctgcagtact | tttattatct | 900  |
| atacataatt | tggccaaaaa | taagaaattg | gaaagaatga | aatgtttagt | ttatagtaga | 960  |
| agaaagatga | tgacactaag | ttgtgaaaat | atgttgtgat | ttttatgaaa | taaactcacg | 1020 |
| gcacgtag   |            |            |            |            |            | 1028 |

<210> 554  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 554  |             |            |            |            |             |     |
| tttttttact | cgaaaaaatg  | tttaatagaa | tttaaaattt | taacttcagg | gaatttgga   | 60  |
| gttcaatcat | tctcaaagag  | gctgtaagga | tgattaaaaa | cctgaaggaa | gccattgaag  | 120 |
| aaacttcctt | ctgctctttc  | tggagatct  | cttttcaatt | atctattcat | catatatattc | 180 |
| ttatcttctg | tgacacaattg | acaactcttc | tttacagcac | attcctctty | attcccatct  | 240 |
| cttggtttct | gattgttcct  | ggggctgtgg | ataaaaccat | tctctgagaa | gctgataagc  | 300 |
| aattggatga | gaaagargga  | gargaaaact | ggcaggarga | tctggsccca | tgccccagc   | 360 |
| cagcacatct | ctcttcagac  | ctggtgaccc | cagccactgg | gaacctggca | ggcaccagct  | 420 |
| acagtgttgg | acactgctcg  | tgccgaattc |            |            |             | 450 |

<210> 555  
 <211> 978  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| <400> 555   |            |             |             |             |             |     |
| ggcacgagcg  | gtttccgcgg | tggccagac   | tgccggcgtg  | ttcttcggct  | gcgccttcat  | 60  |
| tgcccttcggg | cctgcgctcg | ccctttatgt  | cttcaccatc  | gccatcgagc  | cgttgcgtat  | 120 |
| catcttcctc  | atcgccggag | ctttcttctg  | gttgggtgtc  | ctactgattt  | cgtcccttgt  | 180 |
| ttggttctatg | gcaagagtca | ttattgacaa  | caaagatgga  | ccaacacaga  | aatatgct    | 240 |
| gatcttttga  | gcgtttgtct | ctgtctatat  | ccaagaaatg  | ttccgatttg  | catattataa  | 300 |
| actcttaaaa  | aaagccagtg | aagggtttgaa | gagtataaac  | ccagggtgaga | cagcaccctc  | 360 |
| tatgcgactg  | ctggcctatg | tttctggctt  | gggcttttga  | atcatgagtg  | gagtattttc  | 420 |
| ctttgtgaat  | accctatctg | actccttggg  | gccaggcaca  | gtgggcattc  | atggagattc  | 480 |
| tcctcaattc  | ttcctttatt | cagctttcat  | gacgtgtgtc  | attatcttgc  | tgcatgtatt  | 540 |
| ctggggcatt  | gtattttttg | atggctgtga  | gaagaaaaag  | tggggcatcc  | tccttatcgt  | 600 |
| tctctcgacc  | cacctgctgg | tgtcagccca  | gaccttcata  | agttcttatt  | hggaataaa   | 660 |
| cctggcgctca | gcatttataa | tcctggtgct  | catgggcacc  | tgggcattct  | tagctgcggg  | 720 |
| aggcagctgc  | cgaagcctga | aactctgcct  | gctctgccaa  | gacaagaact  | ttcttcttta  | 780 |
| caaccagcgc  | tccagataac | ctcagggaac  | cagcacttcc  | caaaccgcag  | actacatctt  | 840 |
| tagaggaagc  | acaactgtgc | ctttttctga  | aaatcccttt  | ttctggtgga  | attgagaaag  | 900 |
| aaataaaaact | atgcagatat | gcaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | 960 |
| aaaaaaaaaaa | aaaaaaaaa  |             |             |             |             | 978 |

<210> 556  
 <211> 1075  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (79)..(79)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (604)..(604)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (656)..(656)

<223> n equals a,t,g, or c

<400> 556

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| gtgtcgcagc | tctcttcgac | gtacctgtcc | tcaggagccg | cggcggcgac  | tgcgcctcgg | 60   |
| acggccgtcg | gggccgagna | accatgagcc | ccaggggcac | gggctgctcc  | gccgggctgc | 120  |
| tgatgactgt | cggctggctg | cttctggcgg | gcctccagtc | cgcgcgcggg  | accaacgtca | 180  |
| ccgctgccgt | ccaggatgcc | ggcctggccc | acgaaggca  | gggcgaggag  | gagaccgaaa | 240  |
| acaacgacag | cgagaccgcg | gagaactacg | ctccgcctga | aaccgaggat  | gtttcaaata | 300  |
| ggaatgtcgt | caaagaagta | gaattcggaa | tgtgcaccgt | tacatgtggt  | attggtgtta | 360  |
| gagaagttaa | attaacaaat | ggatgccctg | gtggtgaatm | caagtgtggt  | gtacgggtar | 420  |
| aagaatgccg | tggaccaaca | gattgtggct | ggggtaaacc | aatttcagaa  | agtcttgaaa | 480  |
| gtgttagatt | ggcatgtatt | cacacatctc | ccttaatcgt | ttcaatatat  | gtggaactty | 540  |
| taagacagac | cacaatccat | tatacttgta | aatgattcag | caatcctaga  | agtacgcaag | 600  |
| gaangtcacc | ccttgctttc | gagtgtgaca | catggataa  | taatgaaata  | gtagcnacta | 660  |
| ttaaattcac | agtctatacg | agcagtgaat | tgcagatgag | aagatcaagc  | ctaccagcca | 720  |
| ctgatgcagc | cctaattttt | gtgctgacca | taggagtcac | tatctgtgta  | tttataattt | 780  |
| tcttattgat | cttcataatc | ataaattggg | cagcagtcaa | ggctttcttg  | ggggcaaaag | 840  |
| cctctacacc | tgaggtacaa | tccgagcaga | gttctgtgag | atacaaagat  | tcaacttctc | 900  |
| ttgaccaatt | accaacagaa | atgcctgggt | aagatgatgc | tttaagtga   | tggaatgaat | 960  |
| gatgtttgaa | tgatatataa | caaaccaaa  | gatattacag | aataattagat | tcattattac | 1020 |
| aaaaataaaa | tacacattga | aatacttta  | aaaaaaaaa  | aaaaaaaaa   | ctcga      | 1075 |

<210> 557

<211> 738

<212> DNA

<213> Homo sapiens

<400> 557

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| ggtacaggac | tgagaagcag | ataacaagag  | tgacgctcac | agggctgggc  | tgacgctaac | 60  |
| aggaggcagt | gtgtggctcg | aagattcttg  | aaccacacag | agcagctgcg  | gccaccccat | 120 |
| cctgcccaca | gctccagccc | tgagacgacg  | aggaggagag | tcgactttgc  | ctcttgccca | 180 |
| agggaccatg | cccagggtgc | gggtggctctc | cctgatcctc | ctcaccattc  | ccctggccct | 240 |
| ggtggccagg | aaagacccaa | aaaagaatga  | gacgggggtg | ctgaggaaaat | taaaaccgct | 300 |
| caatgcctca | aatgccaacg | tgaagcagdg  | tctgtggttt | gccatgcaag  | aatacaacaa | 360 |
| agagagcgag | gacaagtatg | tcttcctggg  | ggtcaagaca | ctgcaagccc  | agcttcaggt | 420 |
| cacaaatctt | ctggaatacc | ttattgatgt  | agaaattgcc | cgcagcgatt  | gcagaaagcc | 480 |
| tttaagcact | aatgaaatct | gcgccattca  | agaaaactcc | aagctgaaaa  | ggaaattag  | 540 |
| ctgcagcttt | ttggtaggag | cacttccttg  | gaatgggtga | ttcactgtga  | tggagaaaaa | 600 |
| gtgtgaagat | gcttaatggg | gttttgaggc  | atccctccaa | cctctgtgac  | tactttatcc | 660 |
| atgaaaatga | agcaatggca | ggtgggaggc  | tcttcccaat | gtgcttttct  | caaaaaaaaa | 720 |
| aaaaaaaaa  | aaaaaaaaa  |             |            |             |            | 738 |

<210> 558

<211> 752

<212> DNA

<213> Homo sapiens

<400> 558

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gatcaaatcc | tgaagtggta | catgtcacta | ctgttcatag | tctctttgct | ggaacttggt | 60  |
| cctatggccc | tactggcaga | gaggaaggct | atgaaaccca | gtctaggcct | gcgcctagaa | 120 |
| gaagaagaag | aagaaacacc | ttttgaagaa | cagagagcag | tctctgtcat | accaggrgta | 180 |
| cctgtcacat | acttgtagaa | caaaaataag | taacatttta | attattgaaa | caatgtaaca | 240 |

|             |             |             |             |            |            |     |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| actttaaaaca | cagtttcata  | actaggagtg  | aatcaccccat | aatctcatac | ccggaacaaa | 300 |
| atatctgtta  | gtatgatgca  | cdttacata   | gctgtaatct  | taaagggcat | gtacttcctt | 360 |
| ctttgctttc  | cttttttttt  | ttcttcatcc  | tttccctctc  | tccctctctc | cctctctccc | 420 |
| tttctccctt  | ccttctttct  | tttcttcctt  | tctttctgat  | tttctaactt | ccttctttta | 480 |
| acatttccttg | atcgtctgtg  | ggctctggaca | gcaacatgga  | gatcaattag | gcgagcatt  | 540 |
| ttaaatttgc  | cctcaagaag  | ttccactagt  | gtaagagtag  | gcaagtaacc | aattattaca | 600 |
| atagtgggac  | aagcgtctgtg | atagaaataa  | atacagagta  | ctgtggcagt | ccttaccag  | 660 |
| aaaaagatat  | ctagggtaga  | tggtatctga  | actgagaatt  | aaagaataaa | tagaagatag | 720 |
| catggcaaaa  | aaaaaaaaa   | aaaaactcgt  | ag          |            |            | 752 |

<210> 559  
 <211> 1748  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcacgagta  | aagacaaaat  | aaattctttct | gtccacttat  | ttacctaaaca | tacacttgct  | 60   |
| tccttggaag  | tcataggcat  | ccacatatct  | tcagccacaa  | cttggtat    | ctatataat   | 120  |
| tcttattttt  | gaactcctaa  | actttctggg  | agaaatcttc  | agttgaaaat  | atcctggcaa  | 180  |
| gtaaaattag  | aaactcccag  | aaatgtactt  | atctctatta  | tggtgtttta  | tttctgaaca  | 240  |
| ttgtgcccaa  | cattcttttc  | cacatacttg  | cccaaattgg  | aaaactaggg  | ttctaagttt  | 300  |
| cccctccat   | ccatgccac   | atttaattca  | ccctaataat  | acctgacatc  | tttcaagttc  | 360  |
| atcttctact  | atctatcccc  | acgcaggcca  | tatctgggtt  | gaagcttcat  | tatctctata  | 420  |
| gattaaaaac  | aaaaacaaaa  | tgcatacaag  | caaaacaaat  | aacatacaaa  | caaaaccac   | 480  |
| ctaactcatc  | tttatgtagt  | cagtcctccc  | tcaatagttt  | ggccaaatt   | cctaaaccga  | 540  |
| aatctgattg  | tgactatccc  | cttctaaatg  | tatttaataca | gcatacccct  | tcaataaatc  | 600  |
| cattaaccgt  | tcttggtatc  | caagacagtt  | tgctcatctgt | cttgataaac  | aagttgcaga  | 660  |
| ctccatccaa  | tgccattttc  | ccctagaaat  | atagataatg  | gcactatagg  | aacaatgatc  | 720  |
| tccacatgcc  | tcattgcattg | gtaatttttt  | taacctttgc  | tagaaatggt  | ctgctccact  | 780  |
| ctactcatcc  | accaccatt   | ctactccacc  | ttacactacc  | tcttttccca  | tttagatctt  | 840  |
| ccattctata  | tctccttgca  | tgaaattgtc  | catacctgct  | tagtactcat  | ctcattat    | 900  |
| tgctattgtg  | cgcatactctg | ttcatatgat  | ttcttatgga  | gttattaag   | tattttgatt  | 960  |
| tctgtttcag  | tcagatttcc  | aacagagaag  | tagaaccagt  | agaaaatata  | tcttaagata  | 1020 |
| cttattggag  | ggaattaact  | tacatgggtg  | tggaaccgg   | catagccgac  | ctaaaattta  | 1080 |
| tatggctgac  | tatcaaaaaa  | gacaggctgg  | aactcttagg  | cacaggcaga  | agttgcagtt  | 1140 |
| cacaggtgaa  | atttgttctt  | tatcctggaa  | gcctgggctc  | tgctcttttag | atttagcagc  | 1200 |
| tgactgaaac  | aagtcacact  | agattaccta  | ggataatctt  | gtttacgatt  | atgattatca  | 1260 |
| ctaccagtta  | tcaactgatt  | ttgaacttca  | ttcacatcta  | caaaataacct | tcataggaac  | 1320 |
| atctagatca  | gtgttggtg   | aaataactat  | cagctgagc   | ctagccatgt  | tgacccatca  | 1380 |
| aaagaccatc  | acaattgctg  | atataacttt  | aataaaat    | gcaacatttt  | cagatggaag  | 1440 |
| aattgagaaa  | aggaagcgg   | gctgactttt  | catttttagaa | tttattatgc  | attaacttaa  | 1500 |
| agtaagtaat  | aattatgtag  | gtgatcattt  | tgatatttta  | acctacttaa  | tttagaaaaat | 1560 |
| catttataaat | catttttgtt  | aagactacaa  | aatgattttg  | ggtaaaaaaa  | aattttacca  | 1620 |
| aatatcaaga  | tcacaataat  | cacttaaaat  | agttacatat  | gtaactaacc  | tgcaaatgt   | 1680 |
| gtacatgtac  | cctaaaactt  | aaagtataat  | aaaaaaaaa   | aaaaaaaaa   | aaaaaaaaa   | 1740 |
| aaaaaaaaa   |             |             |             |             |             | 1748 |

<210> 560  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

```

<400> 560
naccattga gcagaaggag gccaggtggg aaagctcctg ggaagagcag ccagactgga      60
cactgggctg cttgagtcct gagtcacaat tcagaattcc tgggctccct ggggtgcattc      120
tatcattcca gttgaaagtt tgcttccttc cagtcattgt gctcttcatt ctactctcct      180
tggtctcat ttcagatgcc atggtcatgg atgaaaaggc caagagaagc tttgtgctgg      240
acacggcttc tgccatctgc aactacaatg cccactacaa gaatcacccc aaatactggt      300
gccgaggcta tttccgtgac tactgcaaca tcatcgctt ctcccctaac agcaccaatc      360
atgtggccct gagggacaca gggaaccagc tcattgtcac tatgtcctgc ctgaccaaag      420
aggacacggg ctggtactgg tgtggcatcc agcgggactt tgccagggat gacatggatt      480
ttacagagct gattgtaact gacgacaaag gaaccctggc caatgacttt tggctctggga      540
aagacctatc aggcaacaaa accagaagct gcaaggctcc caaagttgtc cgcaaggctg      600
accgctccag gacgtccatt ctcattcatt gcatactgat cacgggtttg ggaatcatct      660
ctgtaatcag tcatttgacc aaaaggagga gaagtcaaag gaatagaagg gtaggcaaca      720
ctttgaagcc cttctcgctg gtcctgactc caaaggaaat ggctcctact gaacagatgt      780
gactgaagat ttttttaatt tagttcataa agtgcagcta caacagaata atcaccatga      840
caactggccc acacctcaga gactgattct gatctcccag gaattctgaa ggacctcta      900
tccttgacaa caatcatttg cagccaggta gcaacggcgg tagtcagagg agctatgata      960
gaccacaccc aagcaaggct gccctcaaat aacatctcaa gatcttagtt cttatgcatt     1020
ccatcagtca gaagtgaaga agaggtggag aatctggatt ggggaccagg aaatcacttg     1080
tattttgtta gccca                                         1094

```

```

<210> 561
<211> 531
<212> DNA
<213> Homo sapiens

```

```

<400> 561
gttctaattc actgccacac gccctgctga taaaagcaaa gctcatctct gccgtgctgc      60
agggaaacct atttccttcc cctgcagctc agccacctcc tctctcagg tctgcagcc      120
atgaaaacttc tttacctgtt tcttgccatc cttctggcca tagaagaacc agtgatatca      180
ggcaaacgcc acatccttcg atgcatgggt aacagtggaa tttgtagggc ctcttgcaaa      240
aagaacgaac agccctacct ctattgcaga aattgtcagt cctgctgcct ccagtcctac      300
atgaggataa gcatttctgg caaagaggaa aataccgact ggtcttatga gaagcagtgg      360
ccaagactac cttgagtgtc ggtgattacc attctcaagc tctctgggca cagagacctg      420
ctgtcaaccc cctcatttaa aattcatgtg cctgctaaaa aaaaaaaaaa aaaaaaaaaa      480
aaaaaaaaaa aaaaaaaaaa maawaamwaa amawaaaaaa aaaaactcgag      531

```

```

<210> 562
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

```

```

<400> 562
gaatcccccc gggctncaag gaatttcggc aacgagggac tacagtgagg acgaaatcta      60
ccgcttcaac agccccctgg acaagaccaa cagccttatc tggaccacga ggaccacaag      120
gaccaccaaa gactcagcct ttcacatcat gtcccacgag agcccaggca tcgagtggct      180
ctgtctggag aatgccccat gctatgacaa tgttcccaaa ggcatctttg cccctgaatt      240
cttcttcaag gtgttggtga gcaatagagg agtggacacg agcacctactgcaactacca      300
gctcaccttc ctgctgcaca tccacgggct gccactcagt cccaagcggg cccttttcat      360
catcatgggt tcagctagcg tgtttgtggg cctgggtgat ttctacatcg ccttctgcct      420
cctgtggccc ctcgtggtga agggctgcac gatgatccgg tggaagataa acaacctcat      480
tgccctcagaa tctactaca cctacgcctc catttccgga atctcgagca tgccatctct      540

```

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacattcc | aggatgggct | ccatgttcag | ctccaggatg | acagaggaca | gggctgaacc | 600 |
| caaggaagcc | gtggagagac | agttgatgac | ctgagtgtcc | cacctgcccc | agccccagt  | 660 |
| tactgtcacg | cctctcttat | gaggcccatc | ttgaagatgc | aactgtcac  | ccagcccagg | 720 |
| cctctctttc | tgttttgctt | gatgtttact | tctcgttcag | actcaaataa | agcctttttt | 780 |
| caggaccaa  | aaaaaaaaa  | aaaaaaactc | gag        |            |            | 813 |

<210> 563  
 <211> 1713  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| <400> 563   |             |             |             |            |            |      |
| ggcagcagca  | cagataaaga  | taagtttttac | tgtcatgctg  | cttttaacat | aacagagcaa | 60   |
| catcacctag  | gaaaaaagtt  | tgtaggagga  | tttttaatcc  | atatatttgt | cttatggcta | 120  |
| gataaagatt  | tctctgaaaa  | aaagaagcat  | gtcaggaatc  | tctgggtgcc | cctttttcct | 180  |
| ctggggactt  | ctagcattgt  | tgggcttggc  | tttggttata  | tcatgatct  | tcaatatttc | 240  |
| ccactatgtg  | gaaaagcaac  | gacaagataa  | aatgtacagc  | tactccagtg | accacaccag | 300  |
| ggttgatgag  | tatttatattg | aagacacacc  | aatttatggg  | aacttagatg | atatgatttc | 360  |
| agaaccaatg  | gatgaaaatt  | gctatgaaca  | aatgaaagcc  | cgaccagaga | aatctgtaaa | 420  |
| taagatgcag  | gaagccaccc  | catctgcaca  | ggcaaccaat  | gaaacacaga | tgtgctacgc | 480  |
| ctcacttgat  | cacagcgta   | aggggaagcg  | tagaagccca  | ggaaacagaa | tactcatttc | 540  |
| tcagacaagg  | atggagatga  | gcaactacat  | gcaatagatg  | ccagcgtttc | taaaccacct | 600  |
| tagtagacag  | tttctccccg  | aaagccaggc  | gtagaggaa   | acattcatga | tgatcccatc | 660  |
| gactgttttg  | attgatccgt  | gctaagagaa  | acctattaac  | tagctggacc | atgatctggt | 720  |
| caatgattgg  | ctcctattga  | agatggcttc  | taagaaaaca  | agatgcacag | aggacacaga | 780  |
| aggacttggc  | agcagggtga  | tgacctgatc  | atttgttgat  | gggatggtgg | cttacctctt | 840  |
| attcacagct  | tacacttatg  | catgccaaat  | gtaaggccat  | gaaaatcagt | atttcaaata | 900  |
| acttaaaaaa  | tgctttacta  | ctaaaatgta  | aaaaattaat  | gtgctcacct | cggcagcaca | 960  |
| tataactaaa  | attaataaga  | cccagcttga  | aaattgagcc  | tgataacaag | attacaattt | 1020 |
| cacaataact  | aatacttagg  | gaaatataaa  | aatttaagca  | tgaatgtgtt | ctggaacacg | 1080 |
| ttagaagaaa  | aataaaagcc  | aatgagtttt  | tttttaattc  | tcctttctca | ccaatgggca | 1140 |
| atagcccata  | attgaaataa  | atttctgatt  | gaaaggtata  | ggaaacatta | aaatgcatta | 1200 |
| ctaagagaag  | taatataatt  | ttcttacaaa  | gtatttttcc  | caaagatagc | tttactatct | 1260 |
| caaaaattgt  | caaattaatg  | catgctcctt  | acaacaaaca  | aatatcaaaa | agagtttagg | 1320 |
| aattctacta  | gccagagata  | gtcacttggg  | gaaactttct  | atatatcctt | ctaaatattt | 1380 |
| ttctgggcatt | gcttatgtat  | gtacatcagt  | tgtttctttt  | tattttgaac | caaaaatgtg | 1440 |
| gtttcttttg  | tacacattac  | ttaaactttc  | tttccagtc   | acaatatatt | gtggatttat | 1500 |
| tttactgttt  | atattttaact | atatataaat  | acgcataatat | tgtaatttta | atgtctgctt | 1560 |
| agcaccacac  | tgataaccaa  | atcacagttt  | atttaaataa  | ttttaatgac | ttttcaaaaa | 1620 |
| caattttattg | atgcaaaaag  | caaggttgag  | atgacaatgt  | ttctttcaat | aatttaaaaa | 1680 |
| tactgcttca  | ctgtcaaaaa  | aaaaaaaaaa  | aaa         |            |            | 1713 |

<210> 564  
 <211> 703  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 564  |            |            |             |            |            |     |
| gaattcggca | cgagtgcgcg | ggcaccacgg | cggttttttcg | acgctggcgg | tggacgcagg | 60  |
| cagcatggac | cacggttgct | gggcggagg  | ggagcgtcta  | tggtcagttg | ccttagaagt | 120 |
| ggtgagatgg | gaagctgcag | ttggaagacc | ctggaggatg  | cctgacaagg | ggatgtctga | 180 |
| cacatgattg | gagctctttt | tgaaatgttt | cttgcccttc  | ctggagcaga | ggagccatta | 240 |
| tttatgcagg | tacatcgaag | tcttttgacc | tccatacagt  | gattatgctt | gtcatcgtg  | 300 |
| gtggtatcct | ggcggccttg | ctcctgctga | tagttgtcgt  | gctctgtctt | tacttcaaaa | 360 |
| tacacaacgc | gctaaaagct | gcaaaggaac | ctgaagctgt  | ggctgtaaaa | aatcacaacc | 420 |
| cagacaaggt | gtggtggggc | aagaacagcc | aggccaaaac  | cattgccacg | gagtccttgc | 480 |
| ctgccctgca | gtgctgtgaa | gatatagaa  | tgtgtgccag  | ttttgattcc | ctgccacctt | 540 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gctgttgcca | cataaatgag | ggcctctgag | ttaggaaagg | tgggcacaaa | aatcttcatg | 600 |
| agcaatactt | cttagtagat | tgttttggtt | ttcaaatcaa | gttctagtgt | ttttatgtga | 660 |
| gattatataa | tttacagtgt | tgttttatat | acttttgaat | aaa        |            | 703 |

<210> 565  
 <211> 848  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 565  |             |            |            |            |             |     |
| ggcacgagca | ctactgtaag  | agctgggcag | tgaatgtggt | tgcagcatgg | cctttgggca  | 60  |
| agaagtaacc | catttaacta  | aaaccagctg | gttggtccca | ctcagattta | tcaaaggggt  | 120 |
| actgggtccc | tgggggtgga  | tattgcttat | attagactta | gaatagcata | ctgttttaat  | 180 |
| attatatgaa | ctaaaatggt  | tctttaaaaa | aagagtgggc | tgtaaatgga | tttatgtagt  | 240 |
| ggtcaagaat | ttagacttca  | gagtcaaata | aacctatata | agtcctagtc | ctacagttta  | 300 |
| ctaattgtga | gatgtcaagc  | aagtttttga | actcctctaa | gcctctgttt | tttatctat   | 360 |
| aaattaataa | atgaatgaat  | cgggttgagt | gaatatttag | taaattctta | gtacatacta  | 420 |
| gttttttgta | actgtgagac  | tgggtttttg | gtatgggttt | cacatttggg | agtagaaata  | 480 |
| ccacttccta | aagtctgttt  | tatctcaaat | tctctatcca | ggcatagtgt | aaagtgaat   | 540 |
| acctagattt | cttgattaat  | atacagataa | tggccagacg | ccatggctaa | aacctgtgac  | 600 |
| gctagcactt | cgggaaggctg | aggcgggcgg | atcacttgag | gtcaggagtt | ggagaccagc  | 660 |
| ctggcaaaca | tggcgaaacc  | ctgtctctac | taaaaataca | aaaattagct | ggatgtgggtg | 720 |
| gcaggtgtct | gtaatcccag  | ctacttagga | ggctgagaca | ggagaatcc  | ttgagaattg  | 780 |
| ctccactgcc | ctccagcctg  | ggcaacagag | tgagacactt | catctcaaaa | aaaaaaaaaa  | 840 |
| aaaaaaaaaa |             |            |            |            |             | 848 |

<210> 566  
 <211> 1818  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 566   |             |             |             |             |             |      |
| ggcacgagtc  | tcaaaatgac  | acgtgtacct  | ttaggatgaa  | tttctgcaat  | tggatgtgcc  | 60   |
| aaggccagag  | cgtgtgcatt  | tgtggctttg  | gttgacatca  | ccaagtcgcc  | cttcctgggg  | 120  |
| cctgtgctgg  | tgtactctga  | ggcgcgattg  | tgtgaaagggt | gggctaagggt | gcctgttcga  | 180  |
| ccacatcctc  | actggtagac  | tgggtcacca  | cagttttgga  | aaggtggaa   | atggatatca  | 240  |
| aacatagttt  | gaatttgcat  | ttcttttact  | ggaagggagg  | ctgcgcgtgt  | ttcacatcag  | 300  |
| agccacgtgt  | gtttgtgggt  | gttgaacttt  | ctctcttgga  | ttgctaggag  | tgctttatgt  | 360  |
| attaggggaag | cagacttccc  | taatgcgtga  | taacgcgatgc | agatactgtt  | tccaagtttt  | 420  |
| tgttatttgt  | cttttaaatt  | tgtttttgca  | tttgtctttt  | cactttgatt  | tttgccaggc  | 480  |
| tggagttttg  | atgtttatgt  | ggtcataggt  | gtgaatatatt | tcttttgtgg  | cttctggatt  | 540  |
| ttgagacaca  | gtggctatag  | aaccactata  | gccaaaagtt  | atgtttgctt  | ttggtttcat  | 600  |
| atactttgct  | ttggtcctgt  | cttcttgact  | ttattttaaa  | tagtaagata  | ttcttactac  | 660  |
| atttttccat  | tgcccatagc  | tgggaaggaga | ttgcaattat  | caccaaagat  | gaaaaactaa  | 720  |
| ggcatgttct  | cagcagaggc  | agatttagact | ttaagttaga  | ggcttgtcct  | tgggtgcagag | 780  |
| gcctgtgagc  | gacccggccc  | cacttgccct  | gcacaccatg  | gcgtggattg  | tgggcagtca  | 840  |
| caggggaagat | ctctggcttt  | gctgggagct  | gggttacggg  | tcttagagtg  | ccattctaga  | 900  |
| gtggcttcgc  | gtactggtaa  | tgaacgcccc  | tcaagtggcc  | ttgggaattc  | atgagccgga  | 960  |
| tgatgatgac  | ttcgccgggtg | aaaagcaaat  | cccaaataag  | ttgttttctg  | tgcattccag  | 1020 |
| tcccaatttc  | tcttccaagt  | aattattaga  | tgtgcaagc   | ctgttacgtt  | tattacttac  | 1080 |
| agaattgttt  | tgtctgtgt   | gagtttactg  | aggacttagg  | ggttggtatg  | tgaggagggg  | 1140 |
| agccccctt   | ctcctgtggg  | cactctagca  | ctcttaataa  | tcagtattaa  | acatgttgaa  | 1200 |
| ggccataaag  | gaaataacct  | tctcttaaaa  | acaagttaga  | gtcagtcata  | aaactgtttg  | 1260 |
| cctagacctt  | gatcacttaa  | aataagatct  | tagatgtgat  | gtgtctttgt  | ggagtatttc  | 1320 |
| ctgtggctcg  | ggaggtgtgc  | atgagagtgg  | ggctctgagg  | acagtgaggg  | gtgaaggaaa  | 1380 |
| ggtgggagag  | agggccttca  | gtgactgtac  | caaagactca  | cagacactgg  | gtgtcttggt  | 1440 |
| gatgggtgca  | catagccctt  | cttttgtgac  | tgaagctgtg  | tggccttcat  | cccacagggt  | 1500 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| ctgccctctc | cagataaattc | tgtcactgaa | cttcaaactg | tcaatggaac | gatagcgcag | 1560 |
| tctcttaaca | atgcttcagg  | acagataata | gagctgtgcg | ggcagcctcg | gtgacagtgt | 1620 |
| tgggaatctg | cagaatggct  | ttgtccactt | ctttcctttc | agaggagaca | ttgagcctcg | 1680 |
| gcatgggtgc | tcacgccagg  | aatcccagca | tgttgggagg | ctgaggttgg | gggatcggat | 1740 |
| tgcttgaggc | taggagcttg  | aggtcagcct | gcgcaacata | gtgagacccc | tgtctctacc | 1800 |
| aaaaaaaaaa | aaaaaaaaa   |            |            |            |            | 1818 |

<210> 567  
 <211> 1632  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 567   |             |             |             |             |             |      |
| cccgcctcgc  | ggcgcattgt  | gggatctgtc  | ggcttgtcag  | gtggtggagg  | aaaaggcgct  | 60   |
| ccgtcatggg  | gatccagacg  | agccccgtcc  | tgctggcctc  | cctgggggtg  | gggctgggtca | 120  |
| ctctgctcgg  | cctggctgtg  | ggctcctact  | tggttcggag  | gtcccgccgg  | cctcaggtca  | 180  |
| ctctcctgga  | ccccaatgaa  | aagtacctgc  | tacgactgct  | agacaagacg  | actgtgagcc  | 240  |
| accacactct  | ggggctgcct  | gtgggcaaac  | atatctacct  | ctccacccga  | attgatggca  | 300  |
| gcctgggtcat | caggccatac  | actcctgtca  | ccagtgtatga | ggatcaaggc  | tatgtggatc  | 360  |
| ttgtcatcaa  | ggtctacctg  | aagggtgtgc  | accccaaatt  | tcctgaggga  | gggaagatgt  | 420  |
| ctcagtacct  | ggatagcctg  | aagggtgggg  | atgtgggtga  | gtttcggggg  | ccaagcgggt  | 480  |
| tgctcactta  | cactggaaaa  | gggcatttta  | acattcagcc  | caacaagaaa  | tctccaccag  | 540  |
| aaccccaggt  | ggcgaagaaa  | ctgggaatga  | ttgccggcgg  | gacaggaatc  | acccaatgc   | 600  |
| tacagctgat  | ccgggccatc  | ctgaaagtcc  | ctgaagatcc  | aaccacagtgc | tttctgcttt  | 660  |
| ttgccaacca  | gacagaaaag  | gatatcatct  | tgcgggagga  | cttagaggaa  | ctgcaggccc  | 720  |
| gctatcccaa  | tcgctttaag  | ctctgggttc  | ctctggatca  | tcccccaaaa  | gattgggcct  | 780  |
| acagcaaggg  | ctttgtgact  | gccgacatga  | tccgggaaca  | cctgcccgcct | ccaggggatg  | 840  |
| atgtgctggg  | actgctttgt  | ggggcacccc  | caatgggtga  | gctggcctgc  | catcccact   | 900  |
| tggcaaaact  | gggctactca  | caaaaagatgc | gattcaccta  | ctgagcatcc  | tccagcttcc  | 960  |
| ctggtgtctg  | tcgctgcagt  | tgttcccat   | cagtactcaa  | gcactatag   | ccttagatgc  | 1020 |
| ctttcctcag  | agtttcaggt  | tttttcagtt  | acatctagag  | ctgaaatctg  | gatagtacct  | 1080 |
| gcaggaacaa  | tattcctgta  | gccatggaag  | agggccaagg  | ctcagtcact  | ccttggtatg  | 1140 |
| cctcctaaat  | ctccccgtgg  | caacagggtcc | aggagaggcc  | catggagcag  | tctcttccat  | 1200 |
| ggagtaagaa  | ggaaggagc   | atgtacgctt  | ggtccaagat  | tggctagttc  | cttgatagca  | 1260 |
| tcttactctc  | accttctttg  | tgtctgtgat  | gaaaggaaca  | gtctgtgcaa  | tgggttttac  | 1320 |
| ttaaaactta  | ctggttcaacc | tatgagcaaa  | tctgtatgtg  | tgagtataag  | ttgagcatag  | 1380 |
| catactcca   | gaggtgtct   | tatggagatg  | gcaagaaagg  | aggaatgat   | ttcttcagat  | 1440 |
| ctcaaaggag  | tctgaaatat  | catatttctg  | tgtgtgtctc  | tctcagcccc  | tgcccaggct  | 1500 |
| agagggaaac  | agctactgat  | aatcgaaaac  | tgctgtttgt  | ggcaggaacc  | cctggctgtg  | 1560 |
| caaataaawr  | kgctgaggcc  | cctgtgtgat  | attgaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | 1620 |
| aaaaaactcg  | ag          |             |             |             |             | 1632 |

<210> 568  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 568   |             |            |            |            |            |     |
| aattcggcac  | gagagaagga  | aatacatcaa | aatgccacaa | ttggttatct | gtagaggata | 60  |
| gaatgaaaga  | tggcttttatt | ctcttgtttg | ctcttattaa | agaatcaga  | tgggtcttct | 120 |
| cctgtactca  | gagccctggc  | tgcttcctgc | ctggcctctc | ctgcgggctg | ctgtggaacc | 180 |
| agaaaaagcct | taaacggaaa  | tgtgggagag | aagggttgat | tcactttcat | gtctttccag | 240 |
| ggttgtgacc  | cctcaagtcc  | tggttgccct | tgtctgtctc | tattaccttc | aaacagccag | 300 |
| ctogtcttta  | tttctttttt  | agttttgtcg | gggttggtct | gatagatgtt | agtccatcat | 360 |
| agccagatgt  | gtctagcctt  | gtcttttgaa | tgcaagattt | aggatgtggg | tacttagctg | 420 |
| ttagtggaca  | tcagagtcac  | tagtcaggat | gaaagagttc | ttggctttta | ctcccagaaa | 480 |
| ttctggtaac  | gtcatgtata  | gtgacggccg | catgtctaac | aggtggccag | gtaagtcttt | 540 |



|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tggggtggtc | tgtgaatcac | agtttgggag | acattgactt | ttagggagtt | tgttctgaat | 600  |
| tcactagata | atagagatat | aatacagagc | tttgaagct  | ggtgtcttga | tgacagagcc | 660  |
| gtggcaatgg | ggagggttga | ggaggtggct | gttgggcctg | tctcctggtg | agagttgaaa | 720  |
| gggcctgaac | tcaagcagag | gcctcagaac | cgaaaggctg | tgaaggatg  | cagcaagagg | 780  |
| cgccacacag | gagtactctg | cgccctggca | gggtctgaat | acacgtggga | gtggtgagag | 840  |
| ggagaacttt | aagtccagg  | tttgtgcctc | agtgacttag | tgtggccata | tcattagaaa | 900  |
| tgtgttgagg | cggggcacag | tggctcatgt | gtgaatccc  | agcactttga | gaggctgagg | 960  |
| caggaggatg | gcttgaggcc | aggagtttaa | aaccagcctg | gacaacatag | tgagagcctg | 1020 |
| tctctacaaa | aaaaaaaaaa | aaaaactcga | gggggggccc | g          |            | 1061 |

<210> 569  
 <211> 1650  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 569  |            |            |            |             |            |      |
| ggaacctcat | caacgctgac | ttctgcgtgg | cctctgtctg | cgtggccttt  | ggggcagttc | 60   |
| tgggtaaagt | cagccccatt | cagctgctca | tcatgacttt | cttccaagt   | accctcttcg | 120  |
| ctgtgaatga | gttcattctc | cttaacctgc | taaaggtgaa | ggatgcagga  | ggctccatga | 180  |
| ccatccacac | atttggcgcc | tactttgggc | tcacagtgac | cggatcctc   | taccgacgca | 240  |
| acctagagca | gagcaaggag | agacagaatt | ctgtgtacca | gtcggacctc  | tttgccatga | 300  |
| ttggcacctt | cttctgtgg  | atgtactggc | ccagcttcaa | ctcagccata  | tcctaccatg | 360  |
| gggacagcca | gcacgaacac | gccatcaaca | cctactgtct | cttggcagcc  | tgctgtctta | 420  |
| cctcggtggc | aatatccagt | gccctgcaaa | gaagggaag  | ctggacatgg  | tgacatcca  | 480  |
| gaatgccacg | ctcgcaggag | gggtggccgt | gggtaccgct | gctgagatga  | tgctcatgcc | 540  |
| ttacggtgcc | ctcatcatcg | gcttcgtctg | cggcatcatc | tccaccctgg  | gtttgtata  | 600  |
| cctgacccca | ttcctggagt | cccgggtgca | catccaggac | acatgtggca  | ttaacaatct | 660  |
| gcatggcatt | cctggcatca | taggcggcat | cgtgggtgct | gtgacagcgg  | cctccgccag | 720  |
| ccttgaagtc | tatggaaaag | aagggttgt  | ccattccttt | gactttcaag  | gtttcaacgg | 780  |
| ggactggacc | gcaagaacac | agggaaagt  | ccagatttat | ggtctcttgg  | tgacctggc  | 840  |
| catggccctg | atgggtggca | tcattgtggg | gctcattttg | agattaccat  | tctggggaca | 900  |
| accttcagat | gagaactgct | ttgaggatgc | ggytactgg  | gagatgcctg  | aagggaacag | 960  |
| cactgtytac | atccctgagg | acccacctt  | caagccctca | ggaccctcag  | taccctcagt | 1020 |
| acccatggtg | tccccactac | ccatggcttc | ctcggtaccc | ttggtaccct  | aggctcccag | 1080 |
| ggcaggtgag | gagcaggctc | cacagactgt | cctggggccc | agaggagctg  | gtgctgacct | 1140 |
| agctagggat | gcaagagtga | gcaagcagca | ccccacctg  | ctggcttggc  | ctcaaggtgc | 1200 |
| ctccaccct  | gccctccct  | tcattcccag | gggtctgmct | gagaatggaga | aggagaagc  | 1260 |
| tacaaagtgg | gsatccaagc | cgggttcttg | ctgcagaagt | tctgcctctg  | cctggggtct | 1320 |
| tggccacatt | ggagaaaaac | aggctcaaag | tggggctggg | acctggtggg  | tgaacctgag | 1380 |
| ctctcccagg | agacaactta | gctgccagtc | accacctatg | aggctcttct  | accccgctgc | 1440 |
| tgcacctcgg | ccagatctc  | ctatgctccc | tgggtccccc | agacctctyt  | gtgttgctg  | 1500 |
| cgtggcagcc | tccaggaata | aacattcttg | ttgtcctttg | taaaatggtg  | tgaatgctcc | 1560 |
| aatggggcca | gtttgaggga | gaaaaggacc | caagagacct | gcttctgccc  | cagcccttac | 1620 |
| cttcatccaa | gggtaccaac | cacactgcga |            |             |            | 1650 |

<210> 570  
 <211> 2762  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2711)..(2711)  
 <223> n equals a,t,g, or c  
  
 <220>  
 <221> misc\_feature

<222> (2730)..(2730)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2752)..(2752)  
 <223> n equals a,t,g, or c

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 acagcgactc ccggcccggg caggagttgt tagtggcctg gaacaccgtg agcaccggcc 120  
 tgggtgccgcc ggctgcgctg gggctgggtgt cttcccggac cagcgggtgca gtcccgccaa 180  
 aggaagagga gctccggggcg gccgtggagg ttctgagggg ccacggggcta cactcgggtcc 240  
 tggaggagtg gttcgtggag gtgctgcaga acgatctgca ggccaacatc tcccctgagt 300  
 tctggaatgc catctcccaa tgcgagaact ctgcggatga gccccagtgc cttttgctac 360  
 tccttgacgc ttttggcctg ctggagagcc gcctggatcc ctacctgctg agcctagagc 420  
 tgctggagaa atggactcgc ctgggcttgc tgatgggcac tgggtgctcag gggctgcgag 480  
 aagaagtcca cactatgttg cgcggagttc tgttcttttag cacccccaga accttccaag 540  
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 tcttctaccg catctacgcc agcctgcgca tcgaggagct cttcagcatc gtccgagact 1080  
 tcccagactc ccggccagcc atcgaggacc tcaagtactg cctggagagg acggaccaga 1140  
 ggagcagct gctcgttcc ctcaaggctg cctggagagc tcggctcctgcatccaggcg 1200  
 tcaacacgtg tgacatcatc accctctata tctctgccat caaggcgctg cgcgtgctgg 1260  
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 gggaggacac agtgcgcgag attgtggctg ggctgacggg ggactcggac gggacagggg 1380  
 acctggctgt tgagctgtcc aagaccgacc cggcgagcct ggagacaggc caggacagt 1440  
 aggatgactc aggcgagcca gaggactggg tcccggaccc tgtggatgcc gatccaggga 1500  
 agtcgagctc caagcggct tcacgggaca tcacagcct gctggtcagc atctacggca 1560  
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 tccccgagga tatcagggca gccctggagg cttactgcaa gaagtatgag cagctcaagg 1920  
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 gcaccttctc tgtcattgag gaggagcggc ctacggaccg ggacaacatg gtgctcattg 2220  
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 tgctgctctt ctggacgtac atccaggcca tgctgaccaa cctggagagc ctctcactgg 2340  
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 acctgcagga gctgcagggc tacctgcaga agaagtgcg ggaccagcag ctctctact 2460  
 cggccggcgt ctaccgcctg cccaagaact gcagctgaca catcgcccgc ccgcccggcc 2520  
 gcccgccagg cgtgcctctg caggtgctct cgtcctcccg tgccagcccc cgcccggccg 2580  
 tgtcccagaa tgcactgctg aggagcatgc ccacccccac ccccgcagtg tgcagattaa 2640  
 agcaagtcat atcatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2700  
 aaaaaaaaaa naaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anaaaaaaaa 2760  
 at 2762

<210> 571  
 <211> 956  
 <212> DNA  
 <213> Homo sapiens

<400> 571  
 aattcggcac gagctaaagc atgggtttcca agatgctaca ggcagcgagc ctctctcttag 60  
 tgacctgggt agtttgacag gtttggctgg aaaccacagt ccccccattct ctgccagaac 120  
 ccccatgtg gccactgtcc tcagacagct cctggagctt gtggataagc actggaatgg 180  
 ctccggctcc ctctctctca acaagaagtt tctcggtcct gcccgagatt tgcttctgtc 240  
 tttggtagtc ccggtcctt ctcagccgag gtgttgctca catcctgaag acacgatgaa 300  
 agcattctgc aggagggagc ttgaactgaa ggaggctgcg cactgggtccc taatgacatg 360  
 gaaagtttga agcaaaaact ggtcagagt ctggaggaaa acctcatttt gtcagaaaaa 420  
 attcaacagt tggaggaagg tgctgccatc tcaattgtga gtgggcaaca gtcacatact 480  
 tatgatgatc ttctgcacaa aaaccaacag ctgaccatgc aggtggcttg cctgaaccag 540  
 gagcttgccc agctgaaaaa gctggagaag acagttgccca ttctccatga aagtcagaga 600  
 tccctgggtg taactaatga gtatctgctg cagcagctga ataaggagcc aaaagggttat 660  
 tccgggaaag cgctcctgcc tcctgagaag ggtcatcatc tggggagatc atcgcccttt 720  
 gggaaaagca cgttgcttct ctcctcacca gtggcacatg agactggtca gtatctaata 780  
 cagagcgtct tggatgctgc ccagagcct ggcttataga gctagcatgg aactcacacc 840  
 acagcttccc tggtcacag aggstctcac cgccattgca ccagtatggt ggtatgtact 900  
 cacaaagatt aagaaagaaa tgtattctga ytaaaaaaaa aaaaaaaaaa actcga 956

<210> 572  
 <211> 1216  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1028)..(1028)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1070)..(1070)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1087)..(1087)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1090)..(1090)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1157)..(1157)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1193)..(1193)  
 <223> n equals a,t,g, or c

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<400> 572
gagcargaag ccagtctgca agccaggaag atagtctctca ccagaacgca accatgctgg      60
cgcctgggtct tggacttcca gcctccagaa ctgtgagaaa cacggggatc accatccttc      120
aagacctgat ggccgggtgtc tggaacacca ttgctttatg gtttttgagt gtttttggag      180
tcattttcagc ccccacgact gggaccagtc caaccagctg caggtgctgt gggcccgagc      240
ctccaggctg tgggccagcc ggctgacgga tgactccatg aggctcttgc aggacaagga      300
ccagctgacg caccasatgc aggagggcac ctgccggaac ctgggccaga ggctgtcgga      360
cattggcttc tggaagtcat agctgagcta tgagctggac aggcttctga ctgagaacca      420
gaacttggag acggtcaaga ggcggmtgga gtgcgcggcc aatgaggtga actgcccatt      480
gcaggtggcc ttggagtgtc tgtaccatcg agagaagagg attgggattg atttgggtcca      540
tgacaacgtg gagaaaaacc ttatccggga agtggtattg ctaaaatgtt gccagaaca      600
gatgagaaaa ttagctcaaa gaattgatat ccagatgcgg gataaccggg agctcagca      660
cgtgctggag agggacctcg aagacaaaag ctcggccagc tgtatcgatg agaagtgtt      720
taacctgaga atacgtcag actgcatcag cttcttccac ggcatggaga aaattgacgg      780
cacgatctcc gtacctgaga cctgggccaa gttcagtaac gacaacatca aacactcttc      840
agaacatgcg ggccaaaytc atccrgytgc gggaggaggy ggagcacctc tttgagacct      900
tgtcggatca gatgtggagg cakttcacag acaccaacct ggccttcaac gcccgcatct      960
ctgaggtgac ggatgtgaaa gaataagctg cagaccactg ggcgaacatg ggacctactg     1020
gctagctnac ctatgcttca gctttgacat ctgctggcct tcttctggn ccagctcctt     1080
tcatctncaan ctttggggcc cgacagacgc tgaagagaac tttcaggccg agaacaccat     1140
catgctgctg gaaaggncca tcatgggcaa ggagggccgt tgaagtgggc canacaagct     1200
ggatgccgga cccgct

```

```

<210> 573
<211> 818
<212> DNA
<213> Homo sapiens

```

```

<400> 573
aaaacttgag tatgttgagg gaaggaatat atatatatct gggagagaat ggatacgttt      60
tgtttttctg aaatggaatt agaaagatgt tcagttgtct tgtgcattct tgcaaacctt      120
gcagttttga gagccctgtt tctgccttgt atcattttcc actgtgatc kgattctagg      180
agcgtgaaca gggagacaaa ggtgaagttt gtgcacacct ctgtccatgg ggtgggtcat      240
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cagaaagatc cggatcctga gtttccaaca gtgaaatacc cgaatcccga agaggggaaa      360
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ttactgtcaa gtaaaatata tttttatgtg ttttcattgt gctgaagaaa aactaatttc      480
agcatggaaa tatgtatgtt tggctgggtg cagcgtctca tgtctgtaat ccagcactt      540
tgggagacca aggcaggcag atcacttgag gtcaggtgttcgagaacagc ctggccaaca      600
tggcaaaacc ctgtctctac taaaaatata aaaattagct ggggtgtggtg gtacatgcct      660
gtaatcccag ccacttggga ggctgaggca ctagaattgt ttgaacctga gagatggagg      720
ttgcagtgag ctgagattgc accactgcac tccagcctgg gtgacagggt gacagagcga      780
gactctgtct caaaaaaaaa aaaaaaaaaa aactcgag

```

```

<210> 574
<211> 712
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (565)..(565)
<223> n equals a,t,g, or c

```

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<400> 574
gaattcggca cgagctggac aggaccggag aggacccgc gtaaccgcgg aacagacact      60

```

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cccggcagcg | gccgcgcgcg | cggcactgct | acgggacgag | ccggagcgct | tggccatggc | 120 |
| ggcccgatcc | gcactggcgc | tgctgctgct | gctgccagtc | ctgctcctgc | cggtgcagag | 180 |
| ycgctcagag | cccagacca  | ccgcgcccac | ccctacccca | atcccgggtg | gcaactcgtc | 240 |
| aktgagcag  | cccctgccc  | gcacgagct  | ccacgcctgc | ggccataacc | ccaaaccagg | 300 |
| cctgctcatc | ctgctggccc | cgctggccct | gtggcccatt | ctcctgtagg | gacgcccagc | 360 |
| cagccacctc | taagtgcgcg | ctgggactgg | cctgccccat | tgagcaacag | agacgcttga | 420 |
| cagccgcccg | cctccattcc | ttgacttcac | cagaaatgg  | gtccagaaaa | ctgaatccca | 480 |
| ccagcactgg | tttgagca   | ccggacaccg | aggtttcacc | tccagggrtt | ccatggaaga | 540 |
| gcctcaatgg | agatgccaca | tcctnactga | gttaaagatg | ggctgaggaa | cttgggtacc | 600 |
| cacaagtytg | ccttggrat  | caaaagaaaa | tatttacctt | tagtttggtt | cattaaatgc | 660 |
| atgaagtcaa | aatatgaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaactc | ga         | 712 |

<210> 575  
 <211> 2248  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| <400> 575   |             |            |             |            |             |      |
| acgcagaacg  | ccgacggctt  | ctccacctac | gtgtgcctgg  | tgctgctggt | ggccaacatt  | 60   |
| ttgcggatac  | tcttctggtt  | tggaaaggcg | ttgagtcctc  | cgctgctgtg | gcagagcgcc  | 120  |
| atcatgatcc  | tgaccatgct  | gctgatgctg | aagctgtgca  | ccgaggtccg | tgtggccaac  | 180  |
| gagctcaacg  | ccaggcgccg  | ctcctttaca | gctgcagata  | gcaaggatga | agaagtcaag  | 240  |
| gttgccccca  | ggcggtcctt  | cctggacttc | gacccccacc  | acttctggca | gtggagcagc  | 300  |
| ttctcggact  | acgtgcagtg  | cgctcctggc | ttcacgggcg  | tggcgggcta | catcacctac  | 360  |
| ctgtccattg  | actccgccct  | gtttgtggag | accctgggct  | tcctggctgt | gctgaccgaa  | 420  |
| gccatgctgg  | gtgtgcccc   | gctttaccgc | aaccaccgcc  | accagtccac | ggaggggcatg | 480  |
| agcatcaaga  | tggtgctcat  | gtggaacagt | ggtgacgcct  | tcaagacggc | ctacttcctg  | 540  |
| ctgaagggtg  | cccctctgca  | gttctccgtg | tgcggcctgc  | tgcaggtgct | ggtggacctg  | 600  |
| gccatccctg  | ggcaggccta  | cgccttcgcc | cgccaccccc  | agaagccggc | gccccacgcc  | 660  |
| gtgcacccca  | tgggcaccaa  | ggcctctga  | cagtggggag  | gacgaggatg | tgggaagcc   | 720  |
| agccgcgggc  | actggtgggc  | cctgacctcc | ccgcggggag  | ggtgggtgcc | gtggccccctg | 780  |
| caggtgtggc  | agagatgggg  | cacgggcatt | ggggtctcca  | tcagcctctg | tggggtgtct  | 840  |
| caggggtggc  | agtgggggtg  | gggctgggac | gctgtttgtg  | ctcagcgggg | acagccaggg  | 900  |
| ttgatctggc  | cccaggggtt  | ttggtgtttt | ttaggatgac  | ataaaaagca | agtgttttcc  | 960  |
| ccatttcttc  | ttatgaaaca  | ccgtctgagc | ccaaggtaca  | cattgggcgg | cctgcaggaa  | 1020 |
| cctgtccag   | gtggacacac  | gggccagcag | ccgcgaacct  | tgaagctggg | gtgaccgcag  | 1080 |
| gagacctgtg  | aaggcctgtg  | agcggagccc | tcgacccctg  | gacaccctgg | cagacaccc   | 1140 |
| tgcttggaact | gggggtggcct | ctgctaccca | gggggtctggc | acgggggagg | gctggggctt  | 1200 |
| tctctgcttg  | gtacacacgg  | aaaggcggct | gtgcggacgc  | agggtcaccg | tgctccgggt  | 1260 |
| tttctgacag  | tcgggtgtttc | ctgggccttt | ggagtggctg  | cgaggcctga | acgccttctg  | 1320 |
| gatccgctgt  | gtccagcccg  | gctgagcatc | gccagggcta  | gctcatgctg | ctcttgtcag  | 1380 |
| cctctggttc  | tcctcgagtc  | cttggggacg | tggcagatgc  | cagcgaccat | cagacaacgt  | 1440 |
| ggaggccctc  | atgggcaatg  | gctgaggggg | ccgggctgag  | gctgtgcaca | tgcagtctgc  | 1500 |
| acgccactct  | tgggctctgc  | tggcggagat | ccccttcctt  | ctggggcag  | actgcacctc  | 1560 |
| cggtatgcagt | tttgatgtcc  | atcttccagg | agagagacgg  | tctcgggtcc | agggagtggg  | 1620 |
| gggggctgcc  | cctgccgtgc  | aggtcctggc | cgatggcgcc  | ttaccctgct | gccctgggct  | 1680 |
| tttgccctga  | agcaaattcc  | tgagtggggg | gtactggggc  | ctgccgcac  | ctgtcctgtc  | 1740 |
| caactgccac  | ccccgtgtgc  | tggctccctc | acttctggct  | gcagtgggag | ccgccagtct  | 1800 |
| gaccttgtc   | accgcacgct  | ctgcccccc  | cccgttgcaa  | gaggtcacac | catgtcagca  | 1860 |
| gccttgcact  | gaccgcagcc  | ggcccccagg | cctcagagtt  | ctggatgctt | ccgtgcggct  | 1920 |
| ccaacaggca  | tcgtcttccc  | ttccgcaggt | ggaggggcgg  | cttcccgcag | gcattctgagc | 1980 |
| tctgtgccgg  | ggccgtggcc  | atgggaagat | gttccacgct  | gcctcctcct | cgagttttcc  | 2040 |
| tcggaaacac  | tcttgaatgt  | ctgagtggag | gtcctgctta  | gctctttggc | ctgtgagatg  | 2100 |
| ctttgaaaat  | ttttatTTTT  | ttaagatgaa | gcaagatgtc  | tgtagcggta | attgcctcac  | 2160 |
| attaaactgt  | cgccgactgc  | aggcgcagtg | actgctgaat  | gtaccctgtg | tggcgacttg  | 2220 |
| gaatcaataa  | accatttctg  | gatcctga   |             |            |             | 2248 |

<210> 576  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<400> 576  
 agcccttcgt ggccggcttt gccgtcatca ccgcggccccaggacgtgtgg atgctgctgg 60  
 ggggccgcct cctcaccggc ctggcctgcg gtgttgccct cctagtggcc ccggtgagtg 120  
 tcccgtctct cgagtgtcct gtctcgcggc ctgagaccga gggggagtgg gacaaaccgc 180  
 tccccaggcc tgggggcgcg gctccccctg gcgggacctt ctgggtgccca ggcttgaagt 240  
 ccctgcgtta tctcgcggtc cctcccgtcg accctgggaa ggatcctact gttctctcca 300  
 ttttacactg aggtcatgac atgcagtctc ggaaagggtga agtcctttgc ccaggcgagg 360  
 tccacagcta gtcagagggg aagcagttgc aggaaccagc gggtgtccca cttagccgtg 420  
 cccytctttt gctctgcaaa ctgcggatga tccaaggag cccactccct acattttggt 480  
 tttcatccct ggcttcgggg tcaatgactg caattagcag gaagttcctg tcct 534

<210> 577  
 <211> 1032  
 <212> DNA  
 <213> Homo sapiens

<400> 577  
 tgcaggaatt cggcacgagg cgggcgggga cgggcatggc cctgctgctg tgcctgggtg 60  
 gcctgacggc ggcgctggcc cacggctgtc tgcactgccca cagcaacttc tccaagaagt 120  
 tctccttcta ccgccaccat gtgaacttca agtcctgggt ggtgggcgac atccccgtgt 180  
 caggggcgct gtcaccgac tggagcgacg acacgatgaa ggagctgcac ctggccatcc 240  
 ccgccaagat caccgggag aagctggacc aagtgcgac agcagtgtac cagatgatgg 300  
 atcagctgta ccaggggaag atgtacttcc ccgggtattt ccccaacgag ctgcgaaaca 360  
 tcttcgggga gcagggtgcac ctcattccaga acgccatcat cgaaagccgc atcgactgtc 420  
 agcaccgctg tggtaagcaa ggctccgtcc aggctgaggg gcgtgccggg ggcagctcgg 480  
 ggccctggag gctgagggga gccctggcgg ctcttgtaag tgtttcaggc atcttccagt 540  
 acgagaccat ctctgcaac aactgcacag actgcacgt cgcctgcttt ggctataact 600  
 gcgagtcctc ggcgagtggt aagtcagctg tccagggcct cctgaactac ataaataact 660  
 ggcacaaaaca ggacacgagc atgagcctg tatcgccagc cttaaggtgt ctggagcccc 720  
 cacacttggc caacctgacc ttggaagatg ctgctgagtg tctcaagcag cactgacagc 780  
 agctgggcct gccccaggc aacgtggggg cggagactca gctggacagc cctgcctgt 840  
 cactctggag ctgggctgct gctgcctcag gacccctct cgcaccccg acagagctga 900  
 gctggccagg gccaggagg cgggagggag ggaatggggg tgggctgtgc gcagcatcag 960  
 cgctgggca ggtccgcaga gctgcgggat gtgattaaag tccctgatgt ttaaaaaaaaa 1020  
 aaaaaaaaaa ac 1032

<210> 578  
 <211> 1074  
 <212> DNA  
 <213> Homo sapiens

<400> 578  
 gctttcctgt gtcccagctt ttctgcgggt cttggcacct ttcttgccca cagatttctg 60  
 ggttacagag catgtgtgtc tgaggcattg caggcagaaa aggggtggccg acgtgacctc 120  
 tagctggact gctgggcagg ggagctgtcc tagataaaat tggaaagaaa cagtgaacc 180  
 gagacagggt gacaaagaat tcggggactg atgggaactg agcttgggat ccagactgaa 240  
 actgattcca gactgacctc tagcaccag gacccagaca cagggccatg ggacccagc 300  
 atttgagact tgtgcagctg ttctgccttc taggggcat ctccactctg cctcgggctg 360  
 gagctctttt gtgctatgaa gcaacagcct caagattcag agctgttgct ttccataact 420  
 ggaagtggct tctgatgagg aacatggtgt gtaagctgca agagggtgc gaggagacgc 480  
 tagtgttcat tgagacaggg actgcaaggg gaggttgtgg ctttaaaggc tgcagctcgt 540  
 cttcgtctta cctgcgcaa atctcctacc ttgtttcccc acccgagtg tcaattgcct 600

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cctacagtcg | cgtctgccgg | tcttatctct | gcaacaacct | caccaatttg | gagccttttg | 660  |
| tgaactcaa  | ggccagcact | cctaagtcta | tcacatctgc | gtcctgtagc | tgcccgacct | 720  |
| gtgtgggcga | rcacatgaag | gattgcctcc | caaattttgt | caccactaat | tcttgccctt | 780  |
| tggtgcttc  | tacgtgttac | agttccacct | taaaatttca | ggcagggttt | ctcaatacca | 840  |
| ccttcctcct | catgggggtg | gctcgtgaac | ataaccagct | tttagcagat | tttcatcata | 900  |
| ttgggagcat | caaagtgact | gaggtcctca | acatcttaga | gaagtctcag | attgttggtg | 960  |
| cagcatcctc | caggcaagat | cctgcttggg | gtgtcgtctt | aggcctcttg | tttgccctca | 1020 |
| gggactgacc | atctagctgc | acccgacaag | caccagact  | ctttcacata | acaa       | 1074 |

<210> 579  
 <211> 978  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 579  |             |             |             |             |             |     |
| gctcacaaga | taatatctct  | tgcctttttc  | ctctcggagt  | gttcctgcgg  | tttgtgatct  | 60  |
| ctcttagctc | tggtagctg   | ttcaggcctt  | aaggatatctg | ttcgggtatta | tgtgggtcaag | 120 |
| tagctgggac | cacaggatca  | caacaccacg  | tctggctaata | tttttttttt  | tttttttttt  | 180 |
| tttttttttt | gtagagatgg  | ggtttcgccta | tggtggccag  | gctgggtctca | aactcctggc  | 240 |
| ctcaagcaat | cttccagcct  | tggcctccca  | aagtgtctggg | attacagtg   | tgagccacca  | 300 |
| cktctggctt | ggagggtta   | ttaaaacmcc  | gattcttagc  | ctcaccacca  | gagtttctgg  | 360 |
| ttagttagtc | ttggcagggc  | tgagaattk   | gaatttccac  | accttccttg  | gtgatgtgtt  | 420 |
| gttggtagtt | caggaggtac  | atgtgagagg  | aaccgtttag  | atagkaaaaa  | ctgcaaacct  | 480 |
| gaagaagaat | agaagaatcc  | ttattctgkg  | ctctcttaga  | tttagtttcc  | tcatctatga  | 540 |
| tcaataacta | ttcatttctt  | cctcatttcc  | aataacgatt  | tgctgctttt  | aagagcaaga  | 600 |
| gatcactttt | ccttcatggt  | gttttgctag  | tggaacaatca | gaaatgggtt  | cgccagtatt  | 660 |
| cactgatctt | gtaatcactc  | tgggaatcca  | gctgcatctc  | tgtgtagag   | ttttgggtca  | 720 |
| acaagaataa | wrmwagctt   | aaagaattgg  | actcagactc  | ttgaagtcag  | gggttgatga  | 780 |
| gaaggtggct | ctaacttatt  | cattcaacaa  | cttctattg   | agcacctgct  | atgtgccagg  | 840 |
| tgtgttctta | gccactaaga  | tagagcaggt  | aataacatag  | ggccattgtc  | cttatggaat  | 900 |
| ttgtattgta | gtgggggtgaa | taaaaaagg   | cagtctaggt  | ggggcccgga  | aaaaaaaaaa  | 960 |
| aaaaaaaaaa | aaactcga    |             |             |             |             | 978 |

<210> 580  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 580  |            |             |            |            |            |     |
| gaccatatgt | tgcaggaagt | caaaactggac | tttttgtggc | tataaattt  | gcctttaatc | 60  |
| ttattgttct | caattttgga | atcaagtatg  | aaaatctgca | caaagtcaat | gtttacaaga | 120 |
| actgggtgat | tctgggaggc | atctgctaca  | gtctcttttt | atatggatat | gtacatgtcc | 180 |
| tattctacaa | aatgattaa  | agataaaaac  | atacttgat  | cccactgcta | ctttagctgt | 240 |
| caaatttggg | gtttcatcac | attaaaagca  | ataaatcagt | agttggtaat | gtaaaaaaaa | 300 |

<210> 581  
 <211> 1466  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 581   |            |            |            |             |            |     |
| ggcacgagtg  | cctcaaagac | tattatttgg | gaggatctag | tgcaaatggt  | agtaatgtgg | 60  |
| atattgtgta  | gtgtcccagg | atattaatgt | ttttagcctc | tggttttta   | ttctgtattg | 120 |
| ttgccccaaa  | agatgatgct | cacttatctt | tcatccagtg | taaggatatc  | tggaagaca  | 180 |
| acagaaagta  | tagctgtttt | catttcaaaa | gtgatcagct | gcttgagcta  | gcaagcaagg | 240 |
| cttgcaactag | cttccaggcg | cagtcacgca | gtttcacagc | aggcgcgggt  | ccctcggagc | 300 |
| accagagct   | gccctgcggt | agtcagcagt | tgtgctgtgg | ctgcaactgcc | aggctgggtg | 360 |

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| gcargtggat | cggagccagc | agatgtggct  | caggaagtgc | cttcttggcc | tctccttaat  | 420  |
| ctctttcaga | stctgtgggc | ccttgattgc  | actgtgggtt | gtttcagact | ccagtattag  | 480  |
| gagactgaac | cccttggtgg | ttttttgggt  | tgtgtggct  | gagmtgggtt | gaggacatgt  | 540  |
| taagcaggtg | gggtgcytcc | cctgggtttg  | ctccgggtgg | tacctgtggt | gtggggtggt  | 600  |
| tctgagtagt | tctggcccca | ctgctggagt  | atctgcccay | tcagtttgtg | agatggcagg  | 660  |
| gcttcacctc | ggtctggtgc | ctcattttct  | tctttagcag | tgggcttaga | accaatgcag  | 720  |
| attcccaagt | taagtatttt | ttctgtagct  | taattattac | aggcttctgg | tacctaaaggc | 780  |
| ctttcttact | ttctgttctg | aggggaagag  | aagataatgt | tgtttctccg | cccccccg    | 840  |
| agtggcccca | ggaccttgca | tggcatttgc  | agcatttgca | gcgtgcttgg | gtttgcttta  | 900  |
| ctagggtgaa | agtgttgac  | ccccagcac   | ccacaaaggc | acctctgctc | accctccggt  | 960  |
| gaggttctga | ctggccctgg | gacatcacst  | gctccaggat | cctatgtggc | tcatcccagg  | 1020 |
| agagatgtgg | gagggaagg  | gaaaaaaggc  | ttacatttgc | tgagtggaat | tcatgtagat  | 1080 |
| ctgagttccg | cattgattcc | taagctgcag  | agcccttatg | ccttggtgtg | tttgtgaatg  | 1140 |
| ttagtcgggc | ttaacctttt | tcaccgagtt  | agcattggct | gtctcaggag | gctcacagct  | 1200 |
| cctgctcctc | ctccaggggg | gtgcgcccctc | ctcctctgtc | ggtagctgtc | aggtgcccct  | 1260 |
| ttcctctgca | gcagactgtc | ctgggtccctt | gcctggcctt | ccccttacac | gtgagcctgc  | 1320 |
| agcttcattc | acagcccctg | tgtagaaga   | taggcactaa | aagcagctga | ctggcagccc  | 1380 |
| tagaaacatg | aagggtttca | tttatagttt  | cagtcctttt | ccttctttcg | agccttaatt  | 1440 |
| taaaaaaaaa | aaaaaaaaaa | ctcgta      |            |            |             | 1466 |

<210> 582  
 <211> 1019  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (126)..(126)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (202)..(202)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (476)..(476)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (511)..(511)  
 <223> n equals a,t,g, or c

|            |            |
|------------|------------|
| <400> 582  |            |
| gtctcactgt | gccacgcagg |
| tgtaccgaga | ctgtagctgt |
| cagggnaaat | gcacttcaac |
| gtgaattttc | tttacattcc |
| tccgtgacct | tcagagatcc |
| ggggcatccc | ggggcccatc |
| tgccctgcag | ccacggagac |
| atccctcaga | atctttcctc |
| ttctggtttt | catattcggt |
| ttcctgcact | aacggcaact |
| gaatccagtg | gattgtagtt |
| gggtgatcga | caaggcctgt |
| ggccagaagg | 60         |
| tggttttggc | catgccactg |
| catattcggt | 180        |
| ctacgatgtg | 240        |
| agaatactag | 300        |
| ctgctgtggc | 360        |



|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| agraccagtg | tggccagcan  | ggctcctgct  | tgggtgtacca | gawtcggcca | tgagccgcta | 420  |
| cataytcac  | atggggctcc  | tgtacaagtg  | ctgggcgtcc  | tcttctttgc | catagnctgc | 480  |
| ttcttawama | agcccctgtc  | ggagtcttca  | natgggtgg   | raamttgtyt | gccagccag  | 540  |
| tcctcagccc | ctgacagtg   | ccacagatag  | ccagctccag  | agcagcgtct | gaccaccgcc | 600  |
| cgcgcccacc | cggccacggc  | gggcactcag  | catttctctga | tgacagaaca | gtgccgttgg | 660  |
| gtgatgcaat | cacacgggaa  | cttctatattg | acctgcaacc  | ttctacttaa | cctgtggttt | 720  |
| aaagtcggct | gtgacctcct  | gtccccagag  | ctgtacggcc  | ctgcagtggg | tgggaggaac | 780  |
| ttgcataaat | atatattttat | ggacacacag  | tttgcatacag | aacgtgttta | tagaatgtgt | 840  |
| tttatacccg | atcgtgtgtg  | gtgtgctgta  | ggacaaaactc | cgcaggggct | gtgaatccca | 900  |
| ctgggagggc | ggtggcctgc  | agcccagagga | aggcttgtgt  | gtcctcagtt | aaaactgtgc | 960  |
| atatcgaat  | atattttgtt  | atttaagcct  | gaaaaaaaa   | aaaaaaaaa  | aaaaaaaaa  | 1019 |

<210> 583

<211> 973

<212> DNA

<213> Homo sapiens

<400> 583

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| ggggactcag  | tcacacagaa | aatagaagaa | tgtgtgtaca | gttggaaggt  | ctcagagaaa  | 60  |
| aggagtctgt  | tggacagaat | gaccagtctg | tgactactgc | catttttcat  | gaccatatat  | 120 |
| caaccacat   | tacagatgta | acttagtgag | agaaaacatc | tccctgtttt  | ccttcatata  | 180 |
| ttatgaaata  | tttacttttt | ctagtatttt | gtctatctta | cgtcaaagat  | ttaaataatct | 240 |
| ttgacctcct  | gtactaaata | ccacgccaca | tcagttttag | ttgcctttct  | tttttcttta  | 300 |
| ggctagtttt  | ttggtatacc | atttctaaac | caatggtagg | aacattttta  | ggcatctttt  | 360 |
| gtctggaata  | wgttttagca | tgtmcagcat | gaaagtttta | tatgtttatt  | aatttttgtt  | 420 |
| tataattgtt  | aatgaatatt | aattttgtta | atgaatatat | attaaaccaa  | ttaataaaca  | 480 |
| gtcaciaaagc | tgcaaaccgk | tttaataatt | attaaagtgt | taatttttta  | atggattttg  | 540 |
| gtcatctaag  | ttccgaaatg | aaatacacca | aacttgttct | tactttgcca  | aattgtccta  | 600 |
| ctgtttctca  | gaatcaacat | ttttagacat | tatgtagaaa | cactctttaa  | cctagtgtts  | 660 |
| tcaggcttag  | tagagaaagg | aaaagaaaga | aagttggagc | tggaaagagga | aagttggtaa  | 720 |
| atgtggtcag  | tagtgcattt | tgtgtgacca | ggcaagttct | gcagaacctc  | ttctgaacac  | 780 |
| cttcacctgt  | gtaaaatccc | aggcattagt | taatctccaa | ccactatggc  | aggatatgca  | 840 |
| tctgagagca  | aagaggcaaa | tggcaagcag | agatcacaaa | ggtgcaagag  | ctagatagat  | 900 |
| gatagaacca  | gtgccaggac | gatctaaatt | cccttgcatt | gtcaatacrc  | aaaaaaaaa   | 960 |
| aaaaaaaaact | cga        |            |            |             |             | 973 |

<210> 584

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 584

|             |            |             |             |                      |             |     |
|-------------|------------|-------------|-------------|----------------------|-------------|-----|
| ggcacgagca  | cttatgtgtt | tggattctc   | cgtcatcatt  | ctggccgggg           | cgggcagttc  | 60  |
| taggagttgg  | aactcagtcc | tgggtgaaaa  | ggaagtcgtg  | gagggagggc           | tagggccgtg  | 120 |
| ggggaactgc  | tctgctgagc | ctcttctctca | cctgctgctt  | cctaggacta           | acctgaaagg  | 180 |
| ctaaggtagc  | aggctgaagt | cagtgtctcag | aaaaccaatc  | gtcattcttt           | gggtttttt   | 240 |
| ttcttgaaga  | gccactttct | ctttaccttg  | ttctagcctg  | ttggaggtag           | ggtttctgca  | 300 |
| attccaaagg  | ccgtacacag | cctctcacca  | tcagaccact  | ttttaaggct           | cttcgttcat  | 360 |
| acctagctcg  | aagattcact | tcctcaggaa  | gccatttttag | ttacaaatct           | gggaaaactt  | 420 |
| aaaatgcttt  | cattgtgca  | tgttttctgt  | tgcagcttca  | gtaccgtacc           | tagtgggtcag | 480 |
| gcatacttac  | aagtctcttt | ttacagtaac  | cccttgtgga  | catctaataa           | atggtcatta  | 540 |
| tttttttagta | ctagtgtgtt | ttcctgaaca  | ctgtaagatc  | tgtgactgac           | gtttgatacc  | 600 |
| ttaaagcagt  | gccatataat | aactaccac   | tatttgttct  | ttatttctgtcagataaaaa |             | 660 |
| tgttctatgt  | agtgtctaca | gtcatttttt  | ttttaactag  | aatttagatt           | tggaaagtagt | 720 |
| ttttctatta  | gttgatttgc | atgaaataca  | aaattaggaa  | aaggcttatt           | ccacctcaac  | 780 |
| ctagttgaac  | tattaatgat | tttttttttt  | ttttgaggat  | ttgggctctt           | tctagataga  | 840 |
| aaatcacctt  | gaacttctag | ctttgcatgt  | tgaagtgagc  | atcatgaaga           | tgagaaaaatg | 900 |

|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| ttgggagatc | atTTTTgcaa  | agggcataat | agtcggcatt | cagatatgag  | taaactgcag | 960  |
| agggaaaatt | gcaagctgtc  | atgttggcct | tgttcctctc | aaccttctgg  | taacctaaca | 1020 |
| agctcctaca | ggttgtatgt  | gaaattgcaa | gatgattata | tagcctgtt   | gaatttacaa | 1080 |
| ccagatcttg | ctttcaaacc  | attattagcc | aagggtttga | ttccacacct  | gtgttcattg | 1140 |
| atTTTTtgg  | attagacatt  | gctgtaactc | tgTTTTtact | ttttcatctg  | ttatcttggc | 1200 |
| tcacttaagg | gagaaggat   | cagcagccta | ggaccacttg | gtttctgttt  | ttatgtttca | 1260 |
| tagttcatgg | ctgataaaaa  | ttacctgtcc | ttaggccgag | tgcaagtgcct | cacacctgta | 1320 |
| atcccagcac | tttggggaggc | cgagggtgag | agatcacctg | agatcaggag  | ttcgagacca | 1380 |
| gcctggacaa | caagagcaaa  | actccatctc | caaaaaaaaa | aaaaaaaaaa  |            | 1430 |

<210> 585  
 <211> 1949  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |             |      |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| <400> 585  |             |             |             |             |             |      |
| ggcacgagat | ctacctggaa  | tgaacaagaa  | tgaacgccag  | cctcatttca  | tgggttttgg  | 60   |
| ttctccacag | gatctgcctc  | ggtctgtcag  | acattcctaa  | ggaaaattgt  | ataataacta  | 120  |
| tttcgggaat | gcagttatct  | catcatggtc  | agtctttggg  | gaagtgggct  | gagaaattac  | 180  |
| atgtgttcta | ttctctatct  | tcatttcctat | tgtagacctc  | acaccgactc  | aaaaccttcc  | 240  |
| ttttagatac | ttctggatat  | aaaaatatat  | gttaattttg  | gggtttcaca  | ctcctgagtg  | 300  |
| aaaggcagtg | tcatacaagta | cgtgaatgac  | cagctcctaa  | atgtctttct  | cgttctcctc  | 360  |
| ccaccagtc  | acgtcctcca  | ggcagtgacc  | ttcctttat   | tcacattccg  | cttacttcc   | 420  |
| tgacccctca | gcatttcaga  | cctgaaagga  | cactgggtact | gttgctcctg  | tcggggcctg  | 480  |
| tggctttgcc | tctcattccc  | tgggtgaatgt | caggaaatag  | agggtcgaga  | ctaattttta  | 540  |
| taggttctca | atTTTTtctg  | cttggggaca  | agctgttgac  | ttagctctga  | ataggagtaa  | 600  |
| taaggaggca | gtgggccagg  | ctgcatgaca  | actggttttc  | aggcccatat  | aaaaaagtac  | 660  |
| taactttatt | atctcaagcc  | atgcctggcc  | tattgcaaag  | cccagtggtg  | gtgtcttggg  | 720  |
| gcttgatatt | gagattggag  | cttctctgac  | ctccagtacc  | ctttcctcag  | gggccacagt  | 780  |
| gtgtgtcaca | tgaatggcaa  | ggtgaggtga  | ggttggggg   | agctcctggg  | gctgtgtcac  | 840  |
| accaccttac | ctgtgtgcat  | tactctgtgc  | ttgttctttt  | gcatacatct  | gctgatttga  | 900  |
| acctcacggc | tctgacttaa  | ggagcaggta  | ggtagggcat  | gtggctcctc  | cctcccgttt  | 960  |
| caaagacaag | gaaagtgagt  | cacagagtag  | tgcaactggc  | taccaggac   | atacagtggc  | 1020 |
| agagccaaga | ctggagccta  | gctgcttgta  | ctaaccatgc  | cagtgccacc  | attaaccca   | 1080 |
| agtcactagt | ggtagctact  | tctgactatg  | actgtagtca  | ctgtctcctg  | gagaggagcc  | 1140 |
| tggccaccag | attgatagtc  | ccagctgaga  | ctctctcctg  | aactgataag  | ctgtttttgca | 1200 |
| tgcttggaa  | gcctttcccc  | agtttggta   | cctgataaac  | tcataccttat | cctcaagatt  | 1260 |
| cagcccagaa | gacaccttta  | aaggaagcct  | tggctgtcct  | tcccaccag   | tgttccctca  | 1320 |
| ctgacttctg | ttgctgtctc  | cactgcattt  | tacctgcttg  | cctccttcca  | tgtgttccca  | 1380 |
| gctagccagt | aaattcttta  | aagacaagca  | ttgtaccctt  | tgccctcagt  | tgcccagac   | 1440 |
| caacctggca | catgctctat  | tcattgtttc  | catgagtgtt  | tcattgttaga | ggtgtatttt  | 1500 |
| gtacacaggt | tttatgctgg  | gggtcagag   | agaagtggac  | agcagattgt  | tggccctccc  | 1560 |
| aggaagaaaa | gtcccaacga  | gctgggtgat  | gatctcttta  | aaggtgcaa   | agagcatgga  | 1620 |
| gctgtagctg | tggagcgagt  | gcaaaagagc  | tggctgatga  | gagccagacc  | ctgaagggaag | 1680 |
| ccaacctgct | caatgctgtc  | atcgtgcagc  | ggttaacata  | accgccagc   | cagctgcctg  | 1740 |
| gcctccctcc | tgtgttttccc | atggccagtg  | gccatgcccc  | atggggatcg  | cccctcctgc  | 1800 |
| ccccttgtgc | ataccagca   | gtccagtga   | acgtctcctc  | catagctctg  | gttcttaga   | 1860 |
| tcttggttg  | acgtttgttt  | tctccttagt  | tgcatttcct  | gggtttttgt  | gatgatcaat  | 1920 |
| ggactttaat | gaaaaaaaa   | aaaaaaaaa   |             |             |             | 1949 |

<210> 586  
 <211> 1499  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (52)..(52)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (84)..(84)  
 <223> n equals a,t,g, or c

<400> 586  
 agcttattgc aaagacaaat gtttgaagtg tttgttgaga tttcctgtg tnccttctga 60  
 ggcagncaca gcataagctc tttnacccctc tactttctcag cacataagct ttcttaccat 120  
 ctatcactgg agtcaggggt gaggggagga ccgcatgaca gttgggttaat atacacttat 180  
 tttttggcaa aaacgttttc tctgggacca gaatgatctt gatactgaaa aaattttctag 240  
 tgctagatcc tctttctaag tgtgaaagga cttatctgga atgctccaga atgatcccaa 300  
 gtgttgagct gagagggacc tggcagcaga atctgattat tgaaaagtgg caattgttga 360  
 tttattgaag acagaataat aactcagcag aactgttatg ttgagctgaa cccgacctcc 420  
 ttcagccgaa tcatgcaaga atgcctgctg catggctgtt gcgtactt attaaggctt 480  
 ggtgttctgg gcacagtgc atgcatttct acatgggttg tcctcacagc aaatgaacaa 540  
 cacaggctta aggaaacaag caactctcaa agtctcgcag tgagtagagc ttagctgttg 600  
 gtagtcaaca tgccacgcga ttcggragtt gagcctgtct ccagagggtta gagatgttca 660  
 gtttctctctt aagggttctta cgtagatttt tttcatgact ttatctacat cctccttaaa 720  
 tttacgtttt tagtccttac tggctcttga tatcaccagt tttgttggtta ttagtaattt 780  
 ctaactgccc taaatttgtc tgttttaaga ttcaagggtt gatacctcag tctgttatct 840  
 ggaatatggt ttacaatatcc attttttctc ttcaagggtt tgaaaacatt gacattgtct 900  
 cctcctaaca tttttatttg tcttgcagac tcctaattta ttttaatttat cgttaggaa 960  
 acgacttttc tgtcttttga tgatttttagc tgcccttctc tagaccttgc tgattccatt 1020  
 atctttacca agaattgaaa gtgaaagtgg catttgtcat agaatgccat ggtcttattc 1080  
 caaagtatct taggatggaa caatacaagg cataatatgg ggtcagtgag gtttggtaca 1140  
 cgagtgaatg accaacaaca ctactgtctg ttcaaaccce gtctgaaggg tgaatcagac 1200  
 cgaccattgg ccgtgagggt ctggactgct cagtattatc tcaaggatat caagggttat 1260  
 tggaaactgt gtgatcaag gggctccatg adttatgca gggattcagt agggagccaa 1320  
 gaagggttgag aatagtctcag agaccagagt ctaagaccaa tcaagaagaa tggatcaatt 1380  
 agagatatga attctggtgc ttatattttt gtggagctgg ttgtgagata aaagggtcaag 1440  
 cctaccagac tgaaaagtgt atgtgaaagc tctttaaaaa aaaaaaaaaa aaactcgag 499

<210> 587  
 <211> 1558  
 <212> DNA  
 <213> Homo sapiens

<400> 587  
 gcacatgcgg ccttgcagct ctccttacgc acatgcgggc cttgtagctc tccttaccca 60  
 catgcgggcc ttgccgctct ccttaccac atgtgggcct tgcagctctc cttaccacaa 120  
 tgcggccttg cagctctcct tacccacatg agccttgca gctctcctta cccacatgcg 180  
 ggccttgccg ctctccttac ccacatggg ccttgccgct ctccttacc acatgggggt 240  
 cttgcagctg tccttacgca catgcgggcc ttgcagctct ccttaccac atggggcctt 300  
 gcagctctcc ttaccacat gcggccttgc agctctcctt acccacatgc gggccttgca 360  
 tgctgttggc tctggagcct ctctctcac aggtctctac aggtgcaggc cactcaccgt 420  
 ctggtggtca ggaccataaa ggacagggtt atgttaaagg ttttgcctca aaccagaagg 480  
 cgaggacctt ttctgtccag ttgccggaat gatgtcatga ggaactgtgt gccagggcac 540  
 gctgtgctag ttacaacatg tgttttgggt tcattcccca cacactgtaa ggtgggcac 600  
 actgggcccc tcacacaggt gaaacagaag cccgggaatc actcgtcccc ttgcccagtc 660

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| atacaactag  | tagccaaggc | agaatttgaa | ctcatgttgc  | cctcagtccc | aaaacctgtg | 720  |
| tacttaaccc  | ttgttctctc | ctgctgggtg | ctgtgtgatg  | tcccatgtct | gtctgttct  | 780  |
| ctctaaaggg  | acagtgcac  | accaggagga | taccagatg   | ctggggggcc | ttgggacaga | 840  |
| gtctgggagg  | attgagtga  | ggagcaggtg | aggggtgagc  | tggagagaga | acgccctggt | 900  |
| ggagagttaa  | tgtagaaag  | ggattaggtc | tccgggagga  | accggatcca | tgtggtctgc | 960  |
| tgagatggct  | gagtctggca | ttcagatgtg | ccaccaaca   | gaagaggccc | tggagggacg | 1020 |
| ccccctttgc  | tgggtggcag | ccgtgggatt | ccgggggtctg | ccttggaggt | cctggagagg | 1080 |
| atgtcgtggc  | cctggcccta | gactcaagct | gcctgggtcc  | agttcagccc | ggccactcct | 1140 |
| gctgtggggc  | ctagccaggg | gccttcactc | caccgactgc  | tgtgtgtttg | tacatgggtg | 1200 |
| tcaccacaggc | catgtgctta | gcaatgtgcc | tgacagccag  | tgccggtgtc | agccattaca | 1260 |
| gggacacacg  | tgcttgagg  | ttgaggccac | gttctgtcac  | ctaggcccgc | tcgtggctct | 1320 |
| gggctggggc  | aaacccccct | ttgaaaggat | tcctttttgc  | ccctggcata | ggctctcatt | 1380 |
| gtcctagtga  | acagctacat | ctttttaaca | agccagaaaa  | ggccagctgg | cagtggctct | 1440 |
| gcctgaaatc  | ccaagactgg | ctggccgaag | caggaggatc  | acttgaggcc | agcctggcca | 1500 |
| aagtaagcaa  | gactctgtct | ctacaaaaaa | ataacaaaaa  | aaaaaaaaaa | aactcgag   | 1558 |

<210> 588

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (474)..(474)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (484)..(484)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (528)..(528)

<223> n equals a,t,g, or c

<400> 588

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | gagcagatgc | ttcccactag | agaagctaag | aagctgtggc | agccacasc  | 60  |
| gggacagggc | ctggcctcca | gcccagggct | ttccctgatg | tccagcctca | gctgcctctt | 120 |
| cctgcctcat | cccacccgca | agaggwgctg | gggaccarag | acagagacac | aaactccatt | 180 |
| tgaatgtgaa | ccttggcacc | atggagatgc | tcagggtg   | cccagttctg | tctctcatta | 240 |
| gtatgaattt | ccttgtgttt | ctgtctctct | cctcttccct | ggtatcagct | gctggkccca | 300 |
| ggtttccttc | cagagaggag | cggggggtgg | gtgggggtgt | gctgattaaa | tctgaggaca | 360 |
| tgacattgrg | cgagagaagc | aaggggagct | gstgacctcc | ctggatggat | aaccatcagg | 420 |
| aggcggtarc | agagtycama | taccatcacc | ttctcctgca | gatgttggtt | cagncacttt | 480 |
| cctnctacca | cagatgggct | atgtgtttca | aagcagaaga | gcagagangg | cagagaaccc | 540 |
| cagctggtt  |            |            |            |            |            | 549 |

<210> 589

<211> 1294

<212> DNA

<213> Homo sapiens

<400> 589

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgcagaatt | cggcacgagg | ttatttcacc | tctcttggcc | tcagtttctc | tgtgaaatca | 60  |
| ggaattaaca | tggctctctg | gacccccctt | tgatggtgaa | tgtgtgggtt | ggtgattttg | 120 |
| tggccctgca | tcatgacctt | atttagttct | ctttcaacag | gggatgtttt | actgccttgt | 180 |

|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| aaaatcctcg  | tgggactgcg | tgtctttata  | ggagccaggg | tgtaaataaa | cagaattcag | 240  |
| attggttcta  | atatatttta | cctctaaaag  | aaagggcatg | gggaggccat | gaccttaaag | 300  |
| cagggttttt  | ctgttgctcg | tgaagcctgt  | gatgattgag | agtggctggg | actggcggga | 360  |
| cgatgttttg  | gtggaagagg | gaggccatct  | gatgcgccc  | cgccccgggg | aggcaccag  | 420  |
| cctgtaagga  | ggtgatgtct | atctacactg  | agcgcaagga | ccctgaaccg | ggggaggctg | 480  |
| aggcgggggc  | tcttgattcc | caccctgtcc  | cccagtggct | aggctagtgt | ggccccggaa | 540  |
| atgacttcca  | tctctccctc | caggcatatt  | taataagagg | ccagtatttt | cagattctgc | 600  |
| cgcttctgga  | cgaatgtctc | agagagctgg  | gaggcgccct | ggaggatgga | acccttcctt | 660  |
| gagcgttggt  | gaggtgtgtc | gggggtgccc  | tggcacaggc | cccctcccct | ggggggcatc | 720  |
| actgttccct  | tgtctgcat  | ccccgtgtgt  | tcccctgccc | ctgaacaggc | gtggagatgt | 780  |
| gcacgggaca  | ctcggaggcc | ggatgtcaa   | cagagtggag | tgccgcgacg | gtgtggccgc | 840  |
| agcctggctg  | tgccttcacg | acgcagctgc  | aatcagagga | gctgtgggac | gctgtcccat | 900  |
| gtggacacag  | cccactcact | gggtgtgtgt  | cctgtgtgtg | gcgctgcact | tttattgtcg | 960  |
| ttaaaaattt  | atattaagat | gcggccgggc  | atggtggctc | atgcttgtaa | tcccagacc  | 1020 |
| ttgggaggcc  | gagcggggcg | gatcacgagg  | tcaggagatc | gagaccatcc | tggcttatcg | 1080 |
| ggtgaaaccc  | cgtctctact | aaaaatacaa  | aaaaattagc | cgggtgtagt | ggtgagtgcc | 1140 |
| tgtagtccca  | gctactcggg | aggctgaggc  | aggagaatgg | cgtgaaccgg | ggaggcggag | 1200 |
| cttgcaagtga | gccgagatcg | tgccactgct  | ctccagcctg | ggcgactgag | cgaaactccg | 1260 |
| tctcaaaaaa  | aaaaaaaaaa | aaaaaaaaact | cgag       |            |            | 1294 |

<210> 590  
 <211> 904  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 590  |            |             |            |            |            |     |
| ggcacgagat | cgtcttgtga | caagacttgc  | tgagaagcac | cttaaaattc | actgtgacc  | 60  |
| acattttgtc | ttttactgtc | tcacgcgata  | gggtagatca | atgtccttta | ctgtagcaga | 120 |
| gactctctca | tgggcaggac | catcatggaa  | agttctgact | acatcaagaa | aggcgccaat | 180 |
| gtctcacctg | tgcttggggg | caggcagcag  | gctgtgatgc | cgggtgcctc | ctggttggta | 240 |
| ctgtggttct | gcttccgtgt | atatgtagcc  | tcacgaagga | ccttttgatt | agccaattac | 300 |
| atgcccctac | cctgagcttc | ttccccagct  | ctttgacttc | ctggacattg | gtgaatatcc | 360 |
| tgaataagca | aaagggataa | aattcataga  | aatatgggtg | caaaaatata | caacttcagc | 420 |
| ccagtctctt | gggtccatgt | tggtaaggag  | tccagtgtgc | aagacaagct | gccaaggaa  | 480 |
| gtgcctcaga | agtctgggtc | aaagaggagg  | gccagatctg | ttctgtgaga | ccctatgtga | 540 |
| ttgttatatt | tttaaataat | atataattaa  | gcaggacaaa | ttaaatactc | catggctttg | 600 |
| gggaaattgt | tgctttaaag | tcctggaatg  | gggtgggcca | cgggtggctc | tgcctattaa | 660 |
| tcccagcact | ttgggaagcc | aaagtgggtg  | gatcacctga | ggtcaggagt | tcaagaccag | 720 |
| cctggccaac | atggcaaaac | cctgtccatg  | gtggtgtgcg | aggctgaggc | aagaaaatcg | 780 |
| cttgaaccgg | agaggcagag | gttgcaagtga | cctgagattg | cgccactgca | ctccaacctg | 840 |
| ggtgacagaa | tgagactccg | tctcaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 900 |
| aaaa       |            |             |            |            |            | 904 |

<210> 591  
 <211> 1374  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| <400> 591  |            |             |             |            |             |     |
| ggcacgaggt | ccggcctccc | tgacatgcag  | atttccaccc  | agaagacaga | gaaggagcca  | 60  |
| gtggtcatgg | aatgggctgg | ggtcaaagac  | tgggtgcctg  | ggagctgagg | cagccaccgt  | 120 |
| ttcagcctgg | ccagccctct | ggaccccgag  | gttggaacct  | actgtgacac | acctaccatg  | 180 |
| cggacactct | tcaacctcct | ctggcttgcc  | ctggcctgca  | gccctgttca | cactaccctg  | 240 |
| tcaaagtcag | atgccaaaaa | agccgcctca  | aagacgctgc  | tggagagag  | tcagttttca  | 300 |
| gataagccgg | tgcaagaccg | gggtttgggtg | gtgacggacc  | tcaaagctga | gagtgtgggt  | 360 |
| cttgagcatc | gcagctactg | ctcggcaaaag | gcccggggaca | gacactttgc | tggggatgta  | 420 |
| ctgggctatg | tcactccatg | gaacagccat  | ggctacgatg  | tcaccaaggt | ctttggggagc | 480 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aagttcacac | agatctcacc | cgtctggctg | cagctgaaga | gacgtggccg | tgagatgttt | 540  |
| gaggtcacgg | gcctccacga | cgtggaccaa | gggtggatgc | gagctgtcag | gaagcatgcc | 600  |
| aagggcctgc | acatagtgcc | tcggctcctg | tttgaggact | ggacttacga | tgatttcagg | 660  |
| aacgtcttag | acagtgagga | tgagatagag | gagctgagca | agaccgtggt | ccaggtggca | 720  |
| aagaaccagc | atttcgatgg | cttcgtgggt | gaggtctgga | accagctgct | aagccagaag | 780  |
| cgcgtgaccg | accagctggg | catgttcacg | cacaaggagt | ttgagcagct | ggccccctg  | 840  |
| ctggatgggt | tcagcctcat | gacctacgac | tactctacag | cgcatacagc | tgccctaata | 900  |
| gcacccctgt | cctgggttcg | agcctgcgtc | caggtcctgg | acccgaagtc | caagtggcga | 960  |
| agcaaaatcc | tcttggggct | caacttctat | ggtatggact | acgcgacctc | caaggatgcc | 1020 |
| cgtgagcctg | ttgtcggggc | caggtacatc | cagacactga | aggaccacag | gccccggatg | 1080 |
| gtgtgggaca | gccaggcctc | agagcacttc | ttcagtaca  | agaagagccg | cagtgggagg | 1140 |
| cacgtcgtct | tctacccaac | cctgaagtcc | ctgcagggtc | ggctggagct | ggccccggag | 1200 |
| ctgggcgttg | gggtctctat | ctgggagctg | ggccagggcc | tggaactact | ctacgacctg | 1260 |
| ctctaggtgg | gcattgcggc | ctccgcggtg | gacgtgttct | tttctaagcc | atggagttag | 1320 |
| tgagcaggtg | tgaaatacag | gccttcatcc | gttaaaaaaa | aaaaaaaaaa | aaaa       | 1374 |

<210> 592  
 <211> 652  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |             |             |             |     |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| <400> 592  |            |             |             |             |             |     |
| gaattcggca | cgagcaacag | tggggcactc  | tgtctcccagg | caggtcccac  | tgggctgagc  | 60  |
| cgcacagcct | ggctttgggc | ttccctgact  | gcacaccca   | catcasctgc  | ctctagccct  | 120 |
| taamatacaa | aacttccccc | agtcactggc  | cgccaggctg  | agttggggga  | tgtgttacat  | 180 |
| ccctgggtcc | actggggggc | agtgttggcc  | atgggtgttg  | tgctggctct  | gccgagaggc  | 240 |
| gttgagtggt | ctgtgtgggg | cgggtgagcg  | cggcccagcc  | tgatggaacc  | caactgtacca | 300 |
| ggcccaggcc | tcagcctctg | agaaggactt  | ccctgtgtca  | ctcactcata  | catgtcctca  | 360 |
| ggacgtgaag | acatttcagc | agaccaaaagt | ttccttcgaa  | ttccttcgaa  | atcgtccaga  | 420 |
| tacttgagga | catctcctcc | tcacctgtgg  | ggtgtctggg  | cagtcctagg  | cgtgggggca  | 480 |
| gatgggtgga | cagctgctgc | tgccctgctg  | gggggtggga  | gcccttggag  | cacacagtgg  | 540 |
| tgaagacatt | cctgaatatg | tctcaggctg  | tagaaatctt  | attttgtgga  | aagatttttag | 600 |
| agaatcatca | aaataaactt | ttaccaaata  | aaaaaaaaaa  | aaaaaaaactc | ga          | 652 |

<210> 593  
 <211> 3059  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| <400> 593  |            |            |            |            |            |      |
| ggcacgagct | gtcatccggt | tccatgccgt | gaggtccatt | cacagaacac | atccatggct | 60   |
| ctcatgctca | gtttgggtct | gagtcctctc | aagctgggat | cagggcagtg | gcaggtgttt | 120  |
| gggccagaca | agcctgtcca | ggccttggtg | ggggaggacg | cagcattctc | ctgtttcctg | 180  |
| tctcctaaga | ccaatgcaga | ggccatgaa  | gtgcggttct | tcaggggcca | gttctctagc | 240  |
| gtgtgccacc | tctacaggga | cggaaggac  | cagccattta | tgagatgcc  | acagtatcaa | 300  |
| ggcaggacaa | aactggtgaa | ggattctatt | gcggaggggc | gcatactctc | gaggctggaa | 360  |
| aacattactg | tggtggatgc | tggcctctat | gggtgcagga | ttagttccca | gtcttacta  | 420  |
| cagaaggcca | tctgggagct | acaggtgtca | gcactgggct | cagttcctct | catttccatc | 480  |
| gcgggatatg | ttgatagaga | catccagcta | ctctgtcagt | cctcgggctg | gttcccccg  | 540  |
| cccacagcga | agtggaaagg | tccacaagga | caggatttgt | ccacagactc | caggacaaac | 600  |
| agagacatgc | atggcctgtt | tgtgtggag  | atctctctga | ccgtccaaga | gaacgcggg  | 660  |
| agcatatcct | gttccatgcg | gcatactcat | ctgagccgag | aggtggaatc | caggttacag | 720  |
| ataggagact | ggagaagaaa | gcacggacag | gcaggtaaaa | gaaaatatc  | ctcttcacac | 780  |
| atztatgact | cctttccaag | tctctcggtt | atggattttt | atatcctgag | gccgtgggt  | 840  |
| ccctgcagag | ccaagcttgt | gatgggaact | ctgaaattgc | agattctggg | ggaggtgcat | 900  |
| ttttagagag | agcccatag  | ccttcttcag | atctctggag | ggtccacaac | actcaaaaag | 960  |
| ggtcccaatc | cttgggtctt | cccttctccc | tgcgccctgt | ttcccacgtg | agcacggaac | 1020 |

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| tgctgtctct  | ctctgcttgc | tttcagaatt | gagagacgcc  | cggaaacacg | caggtaccaa  | 1080 |
| cgcctgagag  | ggtaacagtg | ggcatggagt | aggaagatga  | ccagtgacag | atatggagcc  | 1140 |
| catccagctt  | gtagacagca | aatctgtgat | gcccgaatcc  | accccagggg | gcagctgcct  | 1200 |
| ctaaatacac  | ttcttggccc | aggacttggg | gggaaaagcg  | tagggacgg  | gtcagctagg  | 1260 |
| aggggtcaca  | ggcaagacgc | cagggaactg | agggcattag  | tagctggctt | ctaggggtct  | 1320 |
| gtgcaaaggg  | gaacgaagtg | aagttagcag | gaactgggtg  | gtggaaggaa | gctgaatcct  | 1380 |
| ggagtcactc  | aaggtctcac | aaagtcaaat | agagggctta  | cgtgggaggg | cagtggtagg  | 1440 |
| gctgggtgaa  | catctcatgg | ttgagcatct | ccaagcatca  | gtgaggcacg | ggggctgccc  | 1500 |
| tggagaaggt  | acatggctgg | tgggatagtg | ggactggccg  | gacccatccc | ggagccagtc  | 1560 |
| tgcagtggga  | gggtcgacct | cttgctccag | cccagatttc  | gtcttcagta | actcatgctt  | 1620 |
| cctctctccc  | ccaccgcacc | ccagtggagg | tgactctgga  | tcagagacg  | gctcaccgga  | 1680 |
| agctctgcgt  | ttctgatctg | aaaactgtaa | cccatagaaa  | agctcctcag | gaggtgcctc  | 1740 |
| actctgagaa  | gagatttaca | aggaagagtg | tgggtggcttc | tcaggggttc | caagcagggg  | 1800 |
| aacattactg  | ggaggtggac | gtgggacaaa | atgtaggggtg | gtatgtggga | gtgtgtcggg  | 1860 |
| atgacgtaga  | cagggggaag | aacaatgtga | ctttgtctcc  | caacaatggg | tattgggtcc  | 1920 |
| tcagactgac  | aacagaacat | ttgtatttca | cattcaatcc  | ccattttatc | agcctccccc  | 1980 |
| ccagcacccc  | tcctacacga | gtaggggtct | tcctggacta  | tgaggggtgg | accatctcct  | 2040 |
| tcttcaatac  | aaatgaccag | tcccttattt | ataccctgct  | gacatgtcag | tttgaaggct  | 2100 |
| tggtgagacc  | ctatatccag | catgcatgtg | atgacgagga  | aaaggggact | cccatattca  | 2160 |
| tatgtccagt  | gtcctgggga | tgagacagag | aagaccctgc  | ttaaagggcc | ccacaccaca  | 2220 |
| gaccagaca   | cagccaaggg | agagtgtctc | cgacaggtgg  | ccccagcttc | ctctccggag  | 2280 |
| cctggcgaca  | gagagtcacg | ccccccactc | tcctttaggg  | agctgaggtt | cttctgccct  | 2340 |
| gagccctgca  | gcagcggcag | tcacagcttc | cagatgaggg  | gggattggcc | tgaccctgtg  | 2400 |
| ggagtccagaa | gccatggctg | ccctgaagtg | gggacggaat  | agactcacat | taggttttagt | 2460 |
| ttgtgaaaac  | tccatccagc | taagcgatct | gaacaagtc   | acaacctccc | aggctcctca  | 2520 |
| tttgctagtc  | acggacagtg | attcctgcct | cacaggtgaa  | gattaaagag | acaacgaatg  | 2580 |
| tgaatcatgc  | ttgcagggtt | gagggccaca | gtgttttgcta | atggatgtgt | ttttatgatt  | 2640 |
| atacattttc  | cccaccataa | aactctgttt | gccttaattc  | ccacattaat | ttacttttc   | 2700 |
| ctcctatacc  | caaatccacc | catggaatag | ttaattggaa  | cacctgcctt | tgtgaggctc  | 2760 |
| caaagaataa  | agagtgagta | ggatttttca | ctgattctat  | aagcccagca | ttacctgata  | 2820 |
| ccaaaaccag  | gcaaagaaaa | cagaagaaga | ggaaggaaaa  | ctacaggtcc | atatccctca  | 2880 |
| ttaacacaga  | cacaaaaatt | ctaaataaaa | ttttaacaaa  | ttaaactaaa | caatatattt  | 2940 |
| aaagatgata  | tataactact | cagtgtgggt | tgtcccacaa  | atgcagagtt | ggtttaatat  | 3000 |
| ttaaatatca  | accagtgtaa | ttcagcacat | taataaagta  | aaaaaaaaaa | aaaaaaaaaa  | 3059 |

<210> 594  
 <211> 1963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1116)..(1116)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1253)..(1253)  
 <223> n equals a,t,g, or c

<400> 594  
 ggtanctgca gtacgggtccg attcccgggt cgaccacgc gtccggagaa atgcaaatta 60

|             |             |             |             |             |              |      |
|-------------|-------------|-------------|-------------|-------------|--------------|------|
| aaacagtaaa  | gtgtcatttt  | cacttcctgg  | attggc aaag | ggttttatgt  | at ttttactga | 120  |
| cagtgc tcaa | cattagcagt  | aaacaacaaa  | tggtgagtaa  | atatgagctt  | cggaacctca   | 180  |
| gggaaatgat  | ctccttattt  | caacctgcag  | attccttctt  | acaacca tgg | tagagcagag   | 240  |
| taccaggacg  | ggccattgag  | caccctgggtg | ttgagatcaa  | gtggcctcta  | gtcagagttg   | 300  |
| ggtcagggcc  | actgtgagtg  | ggctgcccc   | aacatgagtc  | agctgtctag  | gactagttta   | 360  |
| tctctgcttc  | tcactttact  | ggtattatgg  | ggcagctcct  | gctgtcttcc  | aatttggtgt   | 420  |
| cttccaaatc  | ggcaccgtct  | tttaaagttg  | agtttcttgt  | tattctcacc  | tgatatacct   | 480  |
| tatttatccc  | acaccacccc  | caataacata  | tcgtgctcag  | tgttatcttt  | gagacaacac   | 540  |
| ttgaatttta  | ctcagcctgg  | agcgctcttc  | acatgtcttg  | tccagatcca  | gttcggactc   | 600  |
| attcttcagc  | cgtgcatcag  | taaatggggg  | ctagggttaaa | ctgtggtgac  | aaacaacctc   | 660  |
| caaatttcag  | tggtc aaaa  | atcttcttcc  | tcatttatwt  | acatttcac   | atgggtcagg   | 720  |
| tgagaggtag  | ctctgtgctg  | tg tcatccta | acacaggaat  | ccagacggaa  | ggagggacaa   | 780  |
| tcaataagat  | ccccattgct  | atagaaaaga  | raaaaaagta  | tgcggaatar  | cactcygttt   | 840  |
| cytgagawt   | ytccctgaaa  | aagtcacatg  | ttatttcttc  | tcacctccat  | tg gcaaaaaa  | 900  |
| aaagtcatgt  | ggccatgtga  | aaatgtaagt  | aggcgggatg  | gaacagtcag  | aatgcattca   | 960  |
| taaaatatga  | actgaaaata  | tctggagaac  | akcacctatg  | actaccacga  | atgccaacat   | 1020 |
| gcatccctaa  | caacc cagt  | ctgtcaccc   | ccaaac ttt  | tatgtcttgc  | aaagtattag   | 1080 |
| aacttcttat  | ctgaagccat  | accactcaga  | gggaangcaa  | aatacatatt  | gacatctcct   | 1140 |
| ttaggatgtc  | cttagagaat  | tcaaggaaaa  | gaagttaaat  | aattttaaag  | tgcttttggg   | 1200 |
| tacagctatt  | tagcactaga  | gggtaagatt  | agacatagat  | tgtaaagata  | atnataggg    | 1260 |
| tagggatagg  | attaggatct  | gggtcagagt  | caggsc caga | agtatggtta  | gagggtgggt   | 1320 |
| catggtcagg  | gtsgagatca  | aagtcagggt  | caaagtaagg  | gtcagaatta  | gggacccagg   | 1380 |
| atagggatca  | ggatttaggt  | tcagtgtcaa  | agtcttggga  | caaggttagg  | gttagaatta   | 1440 |
| gaaccagagc  | tttgttctcc  | tcaggaccca  | ccgaggggtg  | ggtcaccatg  | gctttggagc   | 1500 |
| gcctggtagt  | gtgggtgtgtc | cacagkgaag  | accagagttt  | cattgtcctt  | aagactgacy   | 1560 |
| tg gggagatg | tg gctgtags | ccattgagga  | agggtaggca  | acagcttcc   | gtctgctycc   | 1620 |
| ccgtgtgctg  | aggagggagt  | tctgccatgg  | gctttacttt  | cacatgttat  | attccacaag   | 1680 |
| tcttgtttta  | caaaagcatc  | ccttccttga  | ggcttcggct  | gctcatcgct  | gctcatcatm   | 1740 |
| atagcgtgcc  | ataacatata  | gtaagatttg  | ggtttgtttc  | tg gggagata | tcttgggtata  | 1800 |
| gagaaaggag  | aaatgcttag  | agccaccatc  | aggacagttg  | ggatgaaagt  | tg ggtatagg  | 1860 |
| cagaggctgg  | aggaaacatg  | tgcacccct   | gtaaacactt  | ttattcatgt  | tttaattact   | 1920 |
| catttttctt  | acagtgttaa  | attagtaaag  | atagtattga  | aaa         |              | 1963 |

<210> 595  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> n equals a,t,g, or c

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 595   |            |             |             |             |            |     |
| tncagaggcc  | ctgcggagtt | gttcagaacc  | ccaactctct  | ctggctggct  | accccttgaa | 60  |
| ctactgggtc  | tctggaccca | ttgtgccag   | ccaccccca   | aagccctcag  | gcgagagctg | 120 |
| cctgaggagg  | caccgctgag | gaggaaagga  | gaaagattga  | agttccaagt  | gagattgaga | 180 |
| gatctcccta  | gaggcagctg | aagaggaa    | gtcccgcctc  | agcctcatcc  | caccagaaga | 240 |
| acggtggtaa  | gcggccaggc | tcctgtggrag | ccagggccca  | magcccttgg  | ccagktkgtg | 300 |
| gaaacagctg  | ctgggatggg | tatgcccctt  | gtcactgtca  | cagctgccac  | cttccctact | 360 |
| ctctcatgtc  | ctcctagggc | ctggcctgag  | gtggaggcgc  | cagaagctcc  | tgcat tgc  | 420 |
| gtgtgtcctg  | aactccctga | ggtgcccatg  | gagatgcctt  | tggtgctgcc  | cccagagctc | 480 |
| gagctgctct  | cactggaagc | agtgcacagg  | taccaggrag  | gtggcacctt  | gatgggggtg | 540 |
| acccgggctg  | aagcctctgc | taatggttct  | tgatccctat  | agggcagtg   | cactggagyt | 600 |
| gcaggctaac  | agggagccc  | cttcagcag   | cctgggtgtca | mctctcagcc  | cccgcaggat | 660 |
| ggctgcccgg  | gtcttctame | tgctcctggg  | tgartgtatg  | catgtgtgtg  | tgtgtatgtk | 720 |
| gggcaggggac | acagagacca | gaggcccgtg  | cagggactcc  | cccgaacctgc | cctctcctcg | 780 |



|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| cctcttgacc  | agtgtctctca | gcgcaacaga | ttcttcacgt | gaaacaagaa | agccatatg   | 840 |
| gtcgccctcct | gatccagccg  | gggcccagat | tccactgagg | ttagagtcca | tttaciaaagc | 900 |
| tgccaggaaa  | ccggccactt  | ctagtaaacc | acgtcgtgcc | tcactgaaaa | aaaaaaaaaaa | 960 |
| agg         |             |            |            |            |             | 963 |

<210> 596  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| <400> 596  |             |             |            |            |            |     |
| ggcacgagct | gctcttcttc  | ttcaacatgc  | tcttctgggt | gatttccatg | gtgatgggtg | 60  |
| ctgtgggtgt | ctacgctcgg  | ctaatagaagc | atgcagttct | ccctctgcct | caccgctgtg | 120 |
| ttcctgctgc | agctggccgc  | tgggatccgt  | ggcttcgtct | tctcagacaa | ggtcgaggg  | 180 |
| aaagtgagt  | agatcatcaa  | caatgccatt  | gtgcactacc | gagatgactt | ggatctgcag | 240 |
| aacctcattg | atcttgccca  | gaaaaaggta  | tgggtcagcc | agtggctctg | gggactgtgg | 300 |
| gtaaaagtga | atgtcatccc  | aagagatgcc  | tcacctcta  | tgctgtggg  | gctcttcatt | 360 |
| acctgccagg | taatggcttc  | tgggaagggg  | tttggcaaaa | aaagcacacg | tagcagagt  | 420 |
| ctttaaatgt | acttttaaa   | acacagaaca  | gtatatatag | taatctactg | tggtataaat | 480 |
| ggttacttac | agggggtgag  | gaactgggca  | gattcttgaa | tattacctct | tcaaaagtga | 540 |
| cattttaggc | tgggtccaaag | ggagtgaagt  | atctcatttg | attgttaca  | gtcagctaca | 600 |
| gatccaactc | cttgttctac  | tctttccccc  | cttctcagtg | ctgcacttga | ctagactaaa | 660 |
| aaaaaaaaaa | aaaaa       |             |            |            |            | 675 |

<210> 597  
 <211> 1134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1134)..(1134)  
 <223> n equals a,t,g, or c

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| <400> 597  |            |            |             |             |            |      |
| ncgccccgga | ctcttctcag | ttgagagtgc | ggttcctggg  | caggtttcca  | caccagttcc | 60   |
| tttccgcgtc | cttcggccct | ggctctggct | gcctggcgga  | gggggtag    | catttgtcat | 120  |
| ttgcacactg | ctggctttat | ctttggggct | gcaccccgag  | gcaacaaatg  | caggatgctc | 180  |
| tgtcacccac | atgtccacca | ccatctgggt | tgcccttttg  | ctactttgac  | tttctcctta | 240  |
| aatgcttcc  | gtgctgagca | aacattccac | agccagcaga  | gcaatggaga  | gttcatggcc | 300  |
| actcttccca | gtatcagcaa | gcaatttggg | gtgatcggtt  | ggaagcctca  | gaggaaagat | 360  |
| gtcatcaggc | ttcctgtggc | tttgtccttc | agcagtgggg  | ctcggcttgc  | tttcacctgc | 420  |
| cttaggaaga | tttctggctt | ccgagctctg | atatggggag  | aagataaggg  | ctgggatctt | 480  |
| tgagtctgcc | cctagctggg | tatgtgcgtc | cgggtgagg   | gccttggagt  | ttttggtaat | 540  |
| gactcacttg | tgctctttct | gggatctgtc | tccctccac   | atgaccccg   | gggtccctg  | 600  |
| aatgactgtt | ttagagtacc | catgtgggtt | ccctgagcca  | cagcagggga  | tggttaataa | 660  |
| ggaggttagc | actgagcttg | gggacgtgct | gtcacaccag  | caggacgctg  | caggaaggag | 720  |
| caggctactt | cctttcttga | cgtgcaata  | actcgatatag | gctaataaac  | aggcttataa | 780  |
| gttaaaagg  | ctaccgctcg | gccccttggg | gattccatcc  | cctcctctgt  | aacttggaga | 840  |
| tgtttgtttc | tgctgcagac | tcagagggtt | gcgatgaaga  | gtgggtgggac | tgagttgaga | 900  |
| agcttatccc | ttcgtctggg | gggaggtttc | taattgcccc  | gttctttggg  | ggatccttaa | 960  |
| gtccagcttc | caggtggggg | cagcgatagg | accaagtctt  | cctagtagtc  | tctgggaagc | 1020 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| cacttgaggg  | aagctgccgg | tcatcccatg | cacccattgg | tcttctccag | caggccctgt | 1080 |
| aggctcgtcca | tgttccatgc | cttctggggt | cttgggggag | aaggaagctg | ttgn       | 1134 |

<210> 598  
 <211> 1583  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 598  |             |             |            |             |             |      |
| ggcacgaggg | acaacgacta  | tctgctacat  | ggcatagac  | ctcccatggt  | ctccttttcgg | 60   |
| gcttgcttca | agagcatctt  | cgcattcat   | acagaaactg | gcaacatctg  | gacccatctg  | 120  |
| cttggtttcg | tgctgtttct  | ctttttggga  | atcttgacca | tgctcagacc  | aaatatgtac  | 180  |
| ttcatggccc | ctctacagga  | gaaggtggtt  | tttgggatgt | tctttttggg  | tgcatgtctc  | 240  |
| tgctcagct  | tctcctggct  | ctttcacacc  | gtctattgtc | attcagagaa  | agtctctcgg  | 300  |
| actttttcca | aactggacta  | ttcagggatt  | gctcttctaa | ttatggggag  | ctttgtcccc  | 360  |
| tggtcttatt | attccttcta  | ctgctcccca  | cagccacggc | tcctctacct  | ctccatcgtc  | 420  |
| tgtgtcctgg | gcattttctg  | catcattgtg  | gcgcagtggg | accggtttgc  | cactcctaag  | 480  |
| caccggcaga | caagagcagg  | cgtgttctct  | ggacttggct | tgagtggcgt  | cgtgccacc   | 540  |
| atgcacttta | ctatcgctga  | gggctttgtc  | aaggccacca | cagtgggcca  | gatgggctgg  | 600  |
| ttcttctcta | tggtctgtgat | gtacatcact  | ggagctggcc | tttatgctgc  | tcgaattcct  | 660  |
| gagcgcttct | ttcctggaaa  | atttgacata  | tggttccagt | ctcatcagat  | tttccatgtc  | 720  |
| ctgggtgggg | cagcagcctt  | tgccacttc   | tatggagtct | ccaaccttca  | ggaattcgt   | 780  |
| tacggcctag | aaggcggctg  | tactgatgac  | acccttctct | gagccttccc  | acctgcgggg  | 840  |
| tgaggaggga | acttcccaag  | tgcttttaaa  | aataacttct | ttgctgaagt  | gagaggaaga  | 900  |
| gtctgagttg | tctgtttcta  | gaagaaacct  | cttagagaat | tcagtaccaa  | ccaagcttca  | 960  |
| gcccactttc | acacccactg  | ggcaataaac  | tttccatttc | catttctcta  | gctgggggatg | 1020 |
| gggcatggtc | aaacttagcc  | atccccctct  | cagcaaggca | tctaccggcc  | cctcacagag  | 1080 |
| acagtacttt | gaaactcatg  | ttgagatttt  | accctctcct | ccaaccattt  | tgggaaaatt  | 1140 |
| atggactggg | actcttcaga  | aattctgtct  | tttcttctgg | aagaaaatgt  | ccctccctta  | 1200 |
| ccccatcct  | taactttgta  | tcctggctta  | taacaggcca | tccatttttg  | tagcacactt  | 1260 |
| ttcaaaaaa  | attatatacc  | ctggtcccat  | ctttctaggg | cctggatctg  | cttatagagc  | 1320 |
| aggaagaata | aagccaccaa  | cttttaccta  | gcccggctaa | tcattggaagt | gtgtccaggc  | 1380 |
| ttcaagtaac | ttgagtttta  | atTTTTTTTT  | TTTTcttggc | agagtaatgt  | aaaattttaa  | 1440 |
| tggggaaaga | tatttaatat  | ttaataactaa | gctttaaaaa | gaaacctgct  | atcattgcta  | 1500 |
| tgtatcttga | tgcaaagact  | atgatgttaa  | taaaagaaa  | tacagaagac  | acttggcatt  | 1560 |
| caaaaaaaaa | aaaaaaaaaa  | aaa         |            |             |             | 1583 |

<210> 599  
 <211> 1991  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (300)..(300)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (353)..(353)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 599  |            |            |            |            |            |     |
| gcgacgctcg | gcccgaagat | ggcggccgaa | tggggcggag | gagtgggtta | ctcgggctca | 60  |
| ggcccggccg | gagccggtgg | cgctggagcg | ggtctgtgtg | ggtccgaagc | gttttactcc | 120 |
| tggtgggccc | gctccgggcc | agcgccacat | ctactcccg  | ctccttgggc | agttccctc  | 180 |
| cctgccggca | ccacgtcccc | tctgacactg | aggtcataa  | taaagttcat | cttaaggcaa | 240 |

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| atcatgtggt | caagagagat  | gttgatgagc  | atttaagaat | caagactgtc | tatgataaan  | 300  |
| tgktgaasag | ttgctccctg  | agaaaaagaa  | tcttgtaaag | aacaagcttc | tcncacawgc  | 360  |
| gatttcttat | ttagagaaga  | cttttcaggt  | ccgtcgacct | gcgggcacta | tcttacttag  | 420  |
| cagacaatgt | gcaacaaacc  | aatacctccg  | gaaggaaaac | gatcctcaca | ggtactgcac  | 480  |
| cggggagtgt | gccgcacaca  | caaagtgcgg  | ccccgttatt | gttcctgagg | aacatctcca  | 540  |
| gcaatgccgg | gtctaccgtg  | ggggtaagtg  | gcctcatgga | gcagtgggtg | tgccagacca  | 600  |
| agaaggcatc | tcagatgcag  | actttgttct  | ttægttggg  | gctctggcca | ccgagagatg  | 660  |
| cagccatgaa | aacatcatct  | cttatgcagc  | ctattgtcag | caggaagcaa | acatggacag  | 720  |
| gccaatagca | ggatatgcta  | acctgtgtcc  | aaatatgata | tctaccacgc | ctcaggagtt  | 780  |
| tggtgggatg | ctgtccacag  | tgaaacatga  | ggttattcat | gccctgggtt | tctctgctgg  | 840  |
| gctgtttgca | ttctaccatg  | ataaagatgg  | aaatcctctc | acttcaagat | ttgcagatgg  | 900  |
| cctyccacct | tttaattata  | gtctgggatt  | atatcaatgg | agtgataaag | tagttcgaaa  | 960  |
| agtgragaga | ttatgggatg  | ttcgagataa  | taagatagtt | cgtcacactg | tgtatctcct  | 1020 |
| ggtaacgcct | cgtgttgttg  | aggaagcæg   | aaaacatttt | gattgtccag | ttctagaggg  | 1080 |
| aatggaaact | gaaaatcaag  | gtgggtgagg  | cactgagctc | aaccattggg | aaaaaagggt  | 1140 |
| attagagaat | gaagcgatga  | ctgggttctca | cactcagaat | cgagtactct | ctcgaatcac  | 1200 |
| tctggcatta | atggaggaca  | ctggctggta  | taaagcaaat | tacagcatgg | ctgagaagtt  | 1260 |
| agactggggc | cgaggaatgg  | gctgtgactt  | tgtcaggaag | agctgtaaat | tctggattga  | 1320 |
| tcagcagaga | caaaagagac  | agatgctgag  | cccttactgt | gacacgctca | gaagtaaccc  | 1380 |
| actgcagcta | acttgcagac  | aggaccagag  | agcagttgcc | gtgtgtaatt | tgcaagaagtt | 1440 |
| ccctaagcct | ttaccacagg  | aæaccagta   | ctttgatgaa | ctcagtggaa | tacctgcaga  | 1500 |
| agatttgcct | tattatgggtg | gctccgtgga  | aattgtgac  | tactgscctt | tcagtccagga | 1560 |
| attcagttgg | catttaagtg  | gtgaatatca  | gcgcagctca | gattgtagaa | tattggaaaa  | 1620 |
| tcaaccagaa | atttttaaga  | actatggcgc  | tgaaaagtat | ggacctcatt | ccgttgtct   | 1680 |
| aattcagaaa | tcagcattcg  | ttatggagaa  | gtgtgagagg | aagctgagtt | accagactg   | 1740 |
| gggaagcgga | tgctatcagg  | tttcttgttc  | tcttcaagg  | ctgaaagttt | gggtccaaga  | 1800 |
| tacttcatat | ttgtgtagtc  | gggctgggca  | ggctctccct | gtcagtatcc | agatgaatgg  | 1860 |
| ctggattcac | gatggaacc   | tgctctgccc  | atcatgttgg | gacttctgtg | agctctgtcc  | 1920 |
| tccagaaaca | gatcctccag  | ccactaacct  | gacccgagct | ctgccacttg | atctttgttc  | 1980 |
| ctgttctctg | a           |             |            |            |             | 1991 |

<210> 600  
 <211> 975  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 600   |             |             |             |             |             |     |
| accctactaa  | agggaaacaaa | gctggagctc  | caccgcggtg  | gcggccgctc  | tagaactagt  | 60  |
| ggatcccccg  | ggctgcagga  | attcggcacg  | aggccgacgc  | ctgggggtgtg | gagctgcccc  | 120 |
| accgccaccc  | cgtgggcgag  | tggatcaaga  | agaaaaaacc  | tggcccagaga | gtcgaagggc  | 180 |
| cgccccaggc  | caacagaaat  | caccgcggcct | tacctctgtc  | cccaccctta  | ccttccccca  | 240 |
| cataccgccc  | cctgcttggg  | ttcccacccc  | agcgtttgcc  | gctgctcccc  | ctcctgtccc  | 300 |
| cacagcctcc  | tctctccatt  | ctccatcacc  | agggaaatgcc | ccggttccca  | caggggtcccc | 360 |
| cagatgcctg  | ttttycctca  | gaccatactt  | tccagtcgga  | tcaattcæt   | tgccattcag  | 420 |
| atgtcccctc  | atcagcccat  | gcaggtttct  | tcgtcgaaga  | caattttatg  | gttggtcctc  | 480 |
| agctgcctat  | gcccttcttc  | cccacacccc  | gttatcagcg  | gcctgccccca | gtggtacata  | 540 |
| gggggttttg  | caggtatcgt  | ccccgtggcc  | cctatacgcc  | ctggggacag  | cggcctcgac  | 600 |
| cttcaaaagag | aagggcccca  | gccaatcctg  | agccaaggcc  | tcaatagacg  | gacctaggcc  | 660 |
| ttatttctct  | tttatgaaca  | tggattggac  | agatctgaca  | cttcctttcc  | attgcttggc  | 720 |
| ctgaacagac  | tgaccttgtt  | aacttaagcc  | tggagtccat  | gcctcgtctt  | ccttttgttc  | 780 |
| attgctgtta  | ccaagaaagc  | caaggaagag  | cagcctgact  | cættctctt   | ggctgcagcc  | 840 |
| tcttccccac  | ttcctgggag  | tgacccagcg  | ttattcctgc  | ctcctcactc  | ctattctctt  | 900 |
| tgcttttgtg  | taaaaaataa  | atggaaataa  | acaagttgca  | cagaaaaaaa  | aaaaaaaaaa  | 960 |
| aaaacccaag  | ggggg       |             |             |             |             | 975 |

<210> 601  
 <211> 1209

<212> DNA  
<213> Homo sapiens

<400> 601

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ggccacgaga  | gtggatgcca  | ttcaccaacc  | cggcccgcaa | ggacggagca  | atgttcttcc  | 60   |
| actggcgacg  | tgcagcggag  | gagggcaagg  | actacccttc | tgccagggtc  | aataagactg  | 120  |
| tgcaggtgcc  | tgtgtactcg  | gagcaggagt  | accagcttta | ttccacgat   | gatgcttgga  | 180  |
| ctaaggcaga  | aactgaccac  | ctctttgacc  | tcagccgccc | ctttgacctg  | cgttttgttg  | 240  |
| ttatccatga  | ccggtatgac  | caccagcagt  | tcaagaagcg | ttctgtggaa  | gacctgaagg  | 300  |
| agcgggtacta | ccacatctgt  | gctaagcttg  | ccaacgtgcg | ggctgtgcca  | ggcacagacc  | 360  |
| ttaagatacc  | agtattttgat | gctggggcac  | aacgacggcg | gaaggaaacag | cttgagcgctc | 420  |
| tctacaaccg  | gaccccgag   | caggtggcag  | aggaggagta | cctgctacag  | gagctgcgca  | 480  |
| agattgaggc  | ccggaagaag  | gagcggggaga | aacgcagcca | ggacctgcag  | aagctgatca  | 540  |
| cagcggcaga  | caccactgca  | gagcagcggc  | gcacggacg  | caaggccccc  | aaaaagaagc  | 600  |
| taccccgaga  | aaaggaggct  | gagaagccgg  | ctgttctctg | gactgcaggc  | atcaagtttc  | 660  |
| cagacttcaa  | gtctgcagg   | gtcacgctgc  | ggagccaacg | gatgaagctg  | ccaagctctg  | 720  |
| tgggacagaa  | gaagatcaag  | gccctggaac  | agatgctgct | ggagcttggt  | gtggagctga  | 780  |
| gcccgcacac  | tacggaggag  | ctggtgcaca  | tgttcaatga | gctgcgaagc  | gacctgggtgc | 840  |
| tgctctacga  | gctcaagcag  | gcctgtgcca  | actgcgagta | tgagctgcag  | atgctgcggc  | 900  |
| accgtcatga  | ggcactggcc  | cgggctgggt  | tgctaggggg | ccctgccaca  | ccagcatcag  | 960  |
| gcccaggccc  | ggcctctgct  | gagccggcag  | tgactgaacc | cggacttggt  | cctgacccca  | 1020 |
| aggacaccat  | cattgatgtg  | gtgggcgcac  | ccctcacgcc | caattcgaga  | aagcgacggg  | 1080 |
| agtcggcctc  | cagctcatct  | tccgtgaaga  | aagccaagaa | gccgtgagag  | gccccacggg  | 1140 |
| gtgtgggcga  | cgctgttatg  | taaatagagc  | tgctgagttg | gaaaaaaaaa  | aaaaaaaaaa  | 1200 |
| aaaaaaaaaa  |             |             |            |             |             | 1209 |

<210> 602  
<211> 2135  
<212> DNA  
<213> Homo sapiens

<400> 602

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| cttaatgaac | tggttacag  | ggctgctggg | ctggagggtg  | aggatcttca  | cgaaaaacat | 60   |
| attaaaacaa | accagaaga  | actgagagag | attgtgacat  | ctataacttga | agaatacaca | 120  |
| agtcaagaaa | attggtatta | ggttacctgt | cttgaaactg  | aggaaatggg  | agaggagctg | 180  |
| atgatggagc | accaggcct  | ccaagccatc | acgtctggtg  | aacacacctg  | ccaagttaca | 240  |
| tcttttctag | cctttctcaa | gccaagtccc | actatttgc   | ccatgaacag  | taacatctgg | 300  |
| caaatatgca | ttcagttgga | aggaattggc | cagtttagcat | atgcactagg  | aaaagacttc | 360  |
| tgtttgctct | tgatgtcagc | cctttatcca | gtactggaga  | aggctggaga  | ccaaacccta | 420  |
| ctcattagtc | aggtggctac | cagcaccatg | atggacgttt  | gccgtgcttg  | tggctacgac | 480  |
| tcctgcagc  | acctgatcaa | tcaaatcca  | gactatttag  | tgaatgggat  | ctctttaaat | 540  |
| ctgcgtcatc | tggctctgca | tcctcatacc | ccaaagggtc  | tggaaagtc   | gctgcggaac | 600  |
| tcagatgcta | acctgcttcc | tttggtggca | gatgtggttc  | aagatgtctt  | ggccaccctg | 660  |
| gaccaatttt | acgataagag | agctgcttcc | tttgctcagc  | ttctgcatgc  | tctgtaggca | 720  |
| gcattagccc | agtggttccc | agacacaggt | aatcttgggc  | acctccaaga  | gcaaagttta | 780  |
| ggagaagagg | gaagtcattt | gaaccaaaga | ccagcagctc  | ttgagaagag  | caccaccaca | 840  |
| gctgaagaca | tcgaacagtt | tttgctgaac | tacctcaaag  | agaaggatgt  | ggcagatgga | 900  |
| aatgtctcgg | atthttgat  | tgaagaagag | gaacagtcag  | tccctcccaa  | agtggatgag | 960  |
| aatgacaccc | gtccagatgt | ggagccacca | ctgccattgc  | agatccaaat  | agccatggac | 1020 |
| gtgatggaa  | cttggttcca | gataaaaatc | tgcaaatccg  | cctgaaggtc  |            | 1080 |
| ttggatgtgc | tggtatctgt | tgtgggtgtt | cttcagctcc  | acaaaaaccag | ctgctgtccc | 1140 |
| ttggctcatc | aggcctggcc | ctcgctcggt | caccgactca  | cacgggacgc  | ccccctggca | 1200 |
| gtgcttagag | ccttcaaggt | tttacgtacc | ctgggaagca  | agtgtgggtga | ctttcttcgc | 1260 |
| agccggttct | gcaaagatgt | cctgccaaag | ctggctgggt  | ccctagtcac  | ccaggccccc | 1320 |
| atcagtgcc  | gggtggacc  | agtttactcg | cacacgctgg  | ccttcaagtt  | gcagctgggt | 1380 |
| gtcttacagg | gcctgggccc | cctctgtgag | agactggacc  | taggtgaggg  | tgacctgaat | 1440 |
| aaagtggcgt | atgcctgctt | gatttacctc | agtgctcaaac | agcccgtgaa  | attacaagag | 1500 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gctgccagga | gcgtcttcc  | ccacttgatg | aaggtggacc | cagatccac  | ctggttcctc | 1560 |
| ctgaacgagc | tttactgccc | cgtgcagttc | acacctcccc | acccagcct  | ccaccctgtg | 1620 |
| cagctgcacg | gggccagcgg | gcagcagaac | ccctacacga | ccaacgtgct | ccagctgctc | 1680 |
| aaggagctgc | agtgaccctg | ctccccacc  | acagaggcca | cgatccctc  | ccctactgcc | 1740 |
| agccagaagc | tgggctgacc | ccaccccggc | cataggcggt | ggcagcggca | gcagagaagg | 1800 |
| tgaattagtt | agccaatcga | tttataaatt | gacgacacac | acaactgctt | agaaatggat | 1860 |
| tgaaggaaag | tagctgacta | ttatttatat | ttcatacctt | gtgttttcaa | gtgacattgt | 1920 |
| ctggtggctc | taagggttta | accccttagc | ctaccatct  | tatagcccca | gctccctcac | 1980 |
| aggccacaca | cacacacaca | caagaggtea | gttccccctc | atctgcatac | acctccctgt | 2040 |
| cttcaaataa | tgagatggaa | ctaatttggt | ttacctaac  | tgatctttgg | gaaacaaacg | 2100 |
| gaaataaaga | cacttcttgg | atgaaaagta | aaaaa      |            |            | 2135 |

<210> 603

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 603

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| cagccccgcc  | ttctctacac  | aggaaagctc | agtggcccc  | aagccaggat  | gtcccaagct  | 60   |
| tgggtccccg  | gcctcgcgcc  | caccttgctg | ttcagcctgc | tggctggccc  | ccaaaagatt  | 120  |
| gcagccaaat  | gtggtctcat  | ccttgccctg | cccaaagat  | tcaaagtctg  | tggtagacgc  | 180  |
| tgctgccagg  | agaacgagct  | cttccctggc | cccgtagga  | tcttcgtcat  | catcttctctg | 240  |
| gtcatcctgt  | ccgtcttttg  | catctgtggc | ctggctaagt | gcttctgtcg  | caactgcaga  | 300  |
| gagccggagc  | cagacagccc  | agtggattgc | cgggggcccc | tggaaactgcc | ctccatcatc  | 360  |
| ccccagaga   | gggtcagagt  | atccctttct | gcgccccac  | ccccctacag  | tgaggtgatt  | 420  |
| ctgaagccca  | gcctgggccc  | aactcccaca | gagccacccc | ctccctacag  | cttcaggcct  | 480  |
| gaagaatata  | ccgggggatca | gaggggcatt | gacaaccg   | ccttctgagt  | cacctcctgc  | 540  |
| ctggaatctt  | gccatcagca  | acctcctccc | cgtgcctcc  | tggatcaagc  | tagagactgc  | 600  |
| tggcacccca  | ggaatgtccc  | tgcccatctc | gccgtgtctc | tggttcattct | tggatttaac  | 660  |
| ttattacttt  | ttctgcttct  | gtttccaccc | cagctgcctc | tcttgctctg  | agggttaggc  | 720  |
| tggagtga    | gtttccgccc  | acccccagc  | ccaagaaaga | ggctgccgga  | aagaaaatgc  | 780  |
| tgaccattgg  | aggtgcccaa  | cagtagaatg | ggctactgtg | aggggttagta | agagcccat   | 840  |
| ttctggagggt | atgcaaactc  | tgactggaca | gccagctctg | agattttatc  | agggcacttc  | 900  |
| tatacctgtg  | ggacattgga  | ctggatgagc | cctgagccag | cttccactcc  | tacctgaata  | 960  |
| gagaactcac  | tgcaccacc   | cacaacat   | gataaacaca | tgtcctcact  | gaatgttact  | 1020 |
| gattgcggct  | gagggcctgc  | ctctggctgt | gtggggaggt | gggtggagag  | gtgagcccag  | 1080 |
| gcactgctga  | ggggtgcggt  | gatggggctg | ctgcgcgcga | atcccaccac  | tgatgagcca  | 1140 |
| cctgggagggt | ctgggaggcc  | agtccatcca | tgggcgcgcc | tggagagag   | gct         | 1193 |

<210> 604

<211> 518

<212> DNA

<213> Homo sapiens

<400> 604

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| acgcgtccga | gatacattcc  | atgaatacct | agttttattga | gagtttttag | catgaaggac  | 60  |
| tgctgaattt | tgtcaaaggc  | tttttctgca | tctattgaga  | taatcatgtg | gtttttgtct  | 120 |
| ttggttctgt | ttatgtgatg  | gactatgtt  | attgatttgc  | atatgttgaa | ccagccttgc  | 180 |
| atctcaggga | tgaagccaac  | tcgatcgttg | tggataagct  | ttttgatgtg | ctgctggatt  | 240 |
| tggtttgcca | atatttttatt | gaggattttt | gcatcagtg   | tcttcaggga | tattgggtcta | 300 |
| aaattctctt | ttttttgttg  | tgtctctgcc | aggctttggt  | atcaggatga | tgctggctc   | 360 |
| ataaatgagt | tagggaggat  | tccctctttc | tattgatcag  | aatagtttca | gaaggaatgg  | 420 |
| taccagctct | tctttgtacc  | tctggtagaa | tttgggtgtg  | aatctatctt | gtcctggaat  | 480 |
| atttttgggg | ttggaactca  | aaaaaaaaa  | aaaaaaaaa   |            |             | 518 |

<210> 605

<211> 853

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (75)..(75)  
<223> n equals a,t,g, or c

<400> 605  
naaggcaaat ttcttctca gtcgtgtggc agggccctgag caggcagctg ggtgtcagg 60  
ctcagatcca ggccncgaat gggctgggag ggttgcagaa gccatcacct gagctaccca 120  
gggtgggagc cctggccccg acctctgtcc tgacacgccc caagcggcag caacaaagcc 180  
ccaattggcc tgggcctggg caggaggagc tgggcccggg gccagatact gggatcagcc 240  
actgcagctc cctgagcact dctaagagc acgcggaccc cagacatgag gaggctcctc 300  
ctgggtcacca gcctgggtgt tgtgctgctg tgggaggcag gtgcagtcac agcaccacaag 360  
gtccctatca agatgcaagt caaacactgg ccctcagagc aggaccaga gaaggcctgg 420  
ggcggccgtg tgggtggagc tccggagaag gacgaccagc tgggtgggtgct gtccctgtc 480  
cagaagccga aactcttgac caccgaggag aagccacgag gtcagggcag gggccccatc 540  
cttcaggca ccaaggcctg gatggagacc gaggacaccc tgggcccgtg cctgagtcac 600  
gagcccagac atgacagcct gtaccaccct ccgcctgagg aggaccaggg cgaggagagg 660  
ccccggttgt ggggtgatgc aaatcaccag gtgctcctgg gaccggagga agaccaagac 720  
cacatctacc acccccagta gggctccagg ggccatcact gccccgcgcc tgtcccaagg 780  
ccaggctgtg tgggactggg accctcccta ccctgcccc gctagacaaa taaaccccag 840  
caggccgggt tat 853

<210> 606  
<211> 1757  
<212> DNA  
<213> Homo sapiens

<400> 606  
aggctttcca cccagaccgt caacttcggg acagtggggg agacggtcac ccttcacatc 60  
tgcccagaca gggatgggga tgaggcggca cagcctgatg ctgctgccat ggtggcttgg 120  
ggcagcgggg agaaaggagt gtcacaggga gcagctcgtg gctgcagtgg aagtcactga 180  
gcaagagact aaagtcccca agaaaaccgt catcatagaa gagaccatca cactgtgtgt 240  
gaagagccca cgtggccaac gacggttyccc cagcaagtcc ccctcccgt cacttccccg 300  
ctgctctgcc agcccgtga ggccaggcct actggcccc gacctgtgt acctgccagg 360  
tgctggccag ccccgaggc cggargcaga accaggccag aagccortgg tgcccacact 420  
gtatgtgacg gaggccgagg cccactctcc agctctgccc ggactctcgg gggcccagcc 480  
caagtgggtg gaggtggagg agaccattga agtccgggtg aagaagatgg gcccgaggg 540  
tgtgtctccc accacagagg tgcccaggag ctcatcgggg catctcttca cactgcccgg 600  
tgcgaccccc ggaggggacc ccaattccaa caactccaac aacaagctgc tggcccagga 660  
ggcctggggc aggggcacag ccatggctcg cgtcagagag ccccttgtct tccgctgga 720  
tgccagaggc agtgtggact gggctgcttc tggcatgggcagcctggagg aggagggcac 780  
catggaggag gcgggagagg aagaggggga agacggagac gcctttgtga cggaggagtc 840  
ccaggacaca cacagccttg gggatcgtga cccaagatc ctcacgcaca acggccgcat 900  
gctgacactg gctgacctgg aagattacgt gcctggggaa ggggagacct tccactgtgg 960  
tggccctggg cctggcgccc ctgatgacct tccctgcgag gtctcgggtga tccagagaga 1020  
gatcggggag cccacgggtg gcagcctgtg ctgctcagcg tggggcatgc actgggtccc 1080  
cgaggccctc tcggcctctt taggcctgag ccccggtggg cgtcaccacc gggaccccag 1140  
gtccgtagcc ttgagggcac ctccctcctc ttgcggagg ccccggtcgt gcctgtgggc 1200  
agtgtccct ggacgcagtc tttctgcacc cgcacccggc gttctgcgga cagtggccag 1260

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| agcagcttca | ccacagagct | ttccacccag | accgtcaact | tcgggacagt | gggggagacg  | 1320 |
| gtcacccttc | acatctgtcs | ctggccwcgg | gccttcttac | ctcactcaac | ttcagccagg  | 1380 |
| aggactgggt | ggtgcttgca | atgttggaat | gaccggctca | aagacctcag | ctctgggctg  | 1440 |
| tttcctgtca | gcctggcagg | agcctcagga | ctgtggacga | aggatgtggc | cttggggcatt | 1500 |
| tgtcctgttc | ccacatgggc | ctggtccttc | cctcctggcc | ccagccacag | ctgccaggcc  | 1560 |
| tgacatggcc | ttgcctctcc | tgcagtcttg | gtgactgaga | cccttgggtg | gcgcttccca  | 1620 |
| gctctgcagg | ccctcctggc | cttttctgca | gggtggacac | agggtctgtg | tgtgggcagc  | 1680 |
| agcccctgtc | tctcagcaag | aataaagcag | cttcctgtgc | aaaaaaaaaa | aaaaaaaaaa  | 1740 |
| aactcgagcg | gcacgag    |            |            |            |             | 1757 |

<210> 607  
 <211> 1010  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |            |      |
|-------------|-------------|------------|------------|-------------|------------|------|
| <400> 607   |             |            |            |             |            |      |
| gcgtccgtat  | gttccagtgt  | gggttattgc | agcagctttg | tactatccta  | atggctactg | 60   |
| gggttcctgc  | tgatatcctg  | actgagacca | taaatactgt | atcagaagtt  | attcgagggt | 120  |
| gccaagtaaa  | ccaagactac  | tttgcatctg | taaatgcacc | ttcaaaccce  | ccaagaccgg | 180  |
| caattgtagt  | acttctcatg  | tccatgggta | atgaaaggca | gccatttggt  | ttgcgctgtg | 240  |
| ctgttctcta  | ttgtttccag  | tgtttcttgt | ataaaaacca | aaaaggacaa  | ggagaaatcg | 300  |
| tgtcaacact  | tttacattct  | accattgatg | caacaggtaa | ttcagtttca  | gctggccagt | 360  |
| tattatgtgg  | aggtttgttt  | tctactgatt | cactttcaaa | ctgggtgtgct | gctgtggccc | 420  |
| ttgcccattg  | gttgcaagaa  | aatgccaccc | agaaagaaca | gttgctcagg  | gttcaacttg | 480  |
| ctacaagtat  | tggaaccctt  | ccagtttctt | tacttcaaca | gtgcaccaat  | attctttcac | 540  |
| agggaagcaa  | aatacaaaaca | aggtttggat | tattaatggt | gctttgtacc  | tggttaagca | 600  |
| attgtcccat  | tgcagtaacg  | cattttcttc | acaattcagc | caatgttcca  | ttccttacag | 660  |
| gacaaattgc  | agaaaatctt  | ggagaagaag | agcagttggt | ccaaggctta  | tgtgcccttt | 720  |
| tgttgggcgt  | ttcgatttat  | ttcaatgata | actcagttga | gagctacatg  | aaaagggaag | 780  |
| taaaacaact  | gattgagaag  | aggattggca | aagagaattt | catagagaaa  | ctaggattta | 840  |
| ttagcaaaaca | tgagttgtat  | tccagagcat | ctcagaaacc | ccagccaaac  | tttcccagtc | 900  |
| cagaatacat  | gatatttgat  | catgagttta | cgaagctggt | aaaagaactt  | gaaggtgtta | 960  |
| taactaaggc  | tattttatag  | tccagtgaag | aagataaaaa | aaaaaaaaaa  |            | 1010 |

<210> 608  
 <211> 2561  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |             |      |
|-------------|------------|------------|------------|-------------|-------------|------|
| <400> 608   |            |            |            |             |             |      |
| cccagagagg  | ccggttcctt | taggccgect | gcccgcctcc | agctctcggg  | gtcggctcca  | 60   |
| ggaggcgccc  | tcaggagagg | ggcgggcgct | ctattccaga | gaccgagtgg  | caggcggcc   | 120  |
| actgtggcgg  | ggctctttcc | ccgttttcgc | tcagctaccc | ctcagctccg  | gtagtgcga   | 180  |
| gtccggggtc  | gtcgccgttt | ggggcgggag | ctgctcggcc | ccgccgccgt  | ccccgtcgcc  | 240  |
| gcttccgggt  | ccaggccctt | cgggccgect | gcccgcgtca | tgaggctgcg  | ggtgcggctt  | 300  |
| ctgaagcgga  | cctggcgctt | ggaggtgccc | gagacggagc | cgacgctggg  | gcatttgcgc  | 360  |
| tcgcacctga  | ggcagtcctt | gctgtgcacc | tgggggtaca | gttctaatac  | ccgatttaca  | 420  |
| attacattga  | actacaagga | tcccctcaat | ggagatgaag | agaccttggc  | ttcatatggg  | 480  |
| attgtttctg  | gggacttgat | atgtttgatt | cttcaagatg | acattccgc   | gcctaataata | 540  |
| ccttcattcca | cagattcaga | gcattcttca | ctccagaata | atgagcaacc  | ctctttggcc  | 600  |
| accagctcca  | atcagactag | catgcaggat | gaacaaccaa | gtgattcatt  | ccaaggcagc  | 660  |
| gcagcccagt  | ctgggtgttg | gaatgacgac | agtatgttag | ggcctagtca  | aaattttgaa  | 720  |
| gctgagtcaa  | ttcaagataa | tgcgcatatg | gcagagggca | cagggtttcta | tccctcagaa  | 780  |
| cccatgctct  | gtagtgaatc | ggtggaagg  | caagtgccac | attcattaga  | gaccttgtat  | 840  |
| caatcagctg  | actgttctga | tgccaatgat | gccttgatag | tgttgataca  | tcttctcatg  | 900  |
| ttggagtcag  | gttacatacc | tcagggcacc | gaagccaaag | cctgtccat   | gccggagaag  | 960  |
| tggaaagtga  | gcgggggtga | taagctgcag | tacatgcac  | ctctctgcga  | gggcagctcc  | 1020 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| gctactctca | cctgtgtgcc | tttgggaaac | ctgattgttg | taaatgctac  | actaaaaatc | 1080 |
| aacaatgaga | ttagaagtgt | gaaaagattg | cagctgctac | cagaatcttt  | tatttgcaaa | 1140 |
| gagaaactag | gggaaaatgt | agccaacata | tacaaagatc | ttcagaaact  | ctctcgctc  | 1200 |
| tttaaagacc | agctggtgta | tcctcttctg | gcttttacc  | gacaagcact  | gaacctacca | 1260 |
| gatgtatttg | ggttggtcgt | cctcccattg | gaactgaaac | tacggatctt  | ccgacttctg | 1320 |
| gatgttcgtt | ccgtcttgtc | tttgtctgcg | gtttgtgtg  | acctctttac  | tgcttcaaat | 1380 |
| gacccactcc | tgtggaggtt | tttatatctg | cgtgattttc | gagacaatac  | tgtcagagtt | 1440 |
| caagacacag | attggaaaga | actgtacag  | aagaggcaca | tacaaagaaa  | agaatccccg | 1500 |
| aaagggcggt | ttgtgatgct | cctgccatcg | tcaactcaca | ccattccatt  | ctatcccaac | 1560 |
| cccttgacc  | ctaggccatt | tcctagctcc | cgccttcctc | caggaattat  | cgggggtgaa | 1620 |
| tatgaccaa  | gaccaacact | tcctatgtt  | ggagacccaa | tcagttcact  | cattcctggt | 1680 |
| cctggggaga | cgcccagcca | gtttcctcca | ctgagaccac | gctttgatcc  | agttggccca | 1740 |
| cttcaggac  | ctaaccccat | cttgccagg  | gaggcgcc   | ccaatgacag  | atctcccttt | 1800 |
| agaccagca  | ggggtcggc  | aactgatggc | cggctgtcat | tcattgtgatt | gatttgaat  | 1860 |
| ttcatttctg | gagctccatt | tgtttttgtt | tctaaactac | agatgtcaac  | tccttggggt | 1920 |
| gctgatctcg | agtgttattt | tctgattgtg | gtgttgagag | ttgcactccc  | agaaaccttt | 1980 |
| taagagatac | atttatagcc | ctaggggtgg | tatgacccaa | aggttcctct  | gtgacaaggt | 2040 |
| tggccttggg | aatagttggc | tgccaatctc | cctgctcttg | gttctcctct  | agattgaagt | 2100 |
| ttgttttctg | atgctgttct | taccagatta | aaaaaaagtg | taaattacat  | tggtggtctt | 2160 |
| gacttttatt | acagaaagat | atgtagaaa  | tattcagaac | agatacaca   | tgttacttgg | 2220 |
| acatttcaga | attatcagag | aacatagcat | aggcagataa | tttttgaag   | ggttttctgt | 2280 |
| ttgtttgttt | tttttttttt | tagcagcgct | ctgtcttcta | ataaaggcct  | gatttatgaa | 2340 |
| atgaatgaaa | acagagctag | tttggttgaa | ctggacttgg | ggtgggtgct  | ttggctaac  | 2400 |
| acctactcaa | atccacctct | tctctcgact | tctctctctc | tgagctctct  | tcttgggttc | 2460 |
| tgtggtggaa | ctttctgggc | tgtgaagcaa | tgtgttgaa  | aggccatttg  | gtattaggga | 2520 |
| ctcctgtttg | tggctcctgg | gatgaggtgg | ttatgatttt | g           |            | 2561 |

<210> 609  
 <211> 1015  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| <400> 609  |            |            |             |             |            |      |
| tcgaccacg  | cgctccgagg | cctccaaggc | cctgctccca  | gtgggcgcct  | atgaagtctt | 60   |
| cgcccgagg  | gcggtgggtg | cgggtgcagc | tcggggcctg  | ctgcctggag  | atgaggacgc | 120  |
| tggtcgagct | cgggccctgg | gctggggact | ttgggacctga | cctgctgctc  | accctgtct  | 180  |
| tcctgctctt | cctggcgcac | ggggtcacct | tggaaggggc  | ctcgcccaac  | cccactgtgt | 240  |
| ccctgcagga | gttctcatg  | gccgagcagt | ctctgcctgg  | cacgctgttg  | aagctggcgg | 300  |
| cacaggggct | gggcatgcag | gccgcctgca | ccctgatgcg  | cctctgctgg  | gcctgggagc | 360  |
| tcagtgaact | gcacctgctg | cagagcctca | tggcccagag  | ctgcagctcg  | gccctgcgca | 420  |
| catccgtgcc | ccacggggcg | cttttgagg  | ccgcctgcac  | cttttgtttc  | catctgacct | 480  |
| tcctgcacct | gcggcacagt | cctccggcct | acagcgggac  | tgctgtggct  | ctgttggtca | 540  |
| ccgtcacggc | ctacacggcc | gggcccttca | cgtctgcctt  | cttcaaccctg | ccctggccg  | 600  |
| cctctgtgac | ctttgcctgc | tcggacacac | cttactggag  | tacgtgcagg  | tgtactggct | 660  |
| gggccctctg | acagggatgg | tcctggctgt | gctgctgcac  | cagggccggc  | ttccccgcct | 720  |
| ttccagagg  | aacctgttct | acggccagaa | gaacaagtac  | cgagcacccc  | gaggaagcc  | 780  |
| ggccccggcc | tcaggggaca | cccagacccc | tgcaaagggg  | tccagtgtcc  | gggagcctgg | 840  |
| gcgcagtgg  | gttgaggggc | cacattccag | ctgagtggcc  | ttgctctgtg  | tgagccccgt | 900  |
| gcgagggccc | tgctttagc  | tggacctgg  | aaccttctgt  | agctaagagg  | gaatcctggc | 960  |
| ccccccccca | gaagccattt | gtcaataaac | catttctaag  | aaaaaaaaaa  | aaaaa      | 1015 |

<210> 610  
 <211> 3308  
 <212> DNA  
 <213> Homo sapiens  
 <400> 610



|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ccacgcgtcc  | ggcccagggc  | tgtctgtctc  | caaagcccaa  | ccataactca  | catccccatt  | 60   |
| ccagctcctc  | tgggtgagtc  | tgttccccct  | cagcctcact  | ttccttatcc  | tgtcaaataga | 120  |
| aggattttgga | atgacttaag  | ttattcaagc  | aacaaacact  | tactgaattg  | tcttgccact  | 180  |
| tccagggtga  | cattatggag  | ttctgtgatt  | ctgcaagagg  | ccagagggga  | caaggtcaag  | 240  |
| tgggtgttca  | cctggccccct | catcttccctc | ctgtgctgca  | ccattcccaa  | ctgcagcaag  | 300  |
| ccccgctggg  | agaagttctt  | catggtcacc  | ttcatcaccg  | ccagctgtg   | gatcgctgtg  | 360  |
| ttctcctaca  | tcatgggtgtg | gctgggtgact | attatcggat  | acacacttgg  | gatcccggat  | 420  |
| gtcatcatgg  | gcattacttt  | acggccagca  | ggacaagtgt  | ccagactgca  | tggccagcct  | 480  |
| aattgtggcg  | agacaaggcc  | ttggggacat  | ggcagtctcc  | aacaccatag  | aagcaacgtg  | 540  |
| tttgacatcc  | tggtaggact  | tgggtgtaccg | tggggcctgc  | agaccatggg  | tgttaattat  | 600  |
| ggatcaacag  | tgaagatcaa  | cagccggggg  | ctggtctatt  | ccgtgggtcct | gttgctgggc  | 660  |
| tctgtcgtc   | tcaccgtcct  | cggcatccac  | ctaaacaagt  | ggcgactgga  | ccggaagctg  | 720  |
| ggtgtctacg  | tgctggttct  | ctacgccatc  | ttcttgtgt   | tctccataat  | gatagagttt  | 780  |
| aacgtcttta  | ccttcgtcaa  | cttgccgatg  | tgccgggaag  | acgattagcg  | ctgagtcgcg  | 840  |
| gcccctggga  | ctgtacttgg  | acaccctgtg  | actgtggcgt  | cctcctctcc  | cctccttccc  | 900  |
| ccaccacagg  | tctctcctgc  | ataggcagcc  | actgtccgtt  | ctttcacaca  | ctggaaggaa  | 960  |
| gagccatcgt  | ggtctttgtc  | tggccacagc  | caagctgctg  | ggcatcctcc  | tcctccttgg  | 1020 |
| agttccaccc  | ctgcaaggct  | ggatttgggg  | gccattatct  | gagcagcttc  | aaagaccctt  | 1080 |
| gagctgccaa  | ccacggagat  | gtgccaaagca | tctcatctct  | cctgcacact  | ttagtcagaa  | 1140 |
| ggacttctgc  | atgcagtttg  | tctttctgtt  | ctgaggcag   | cttcagaatt  | gaggtcattt  | 1200 |
| gtgagcaca   | gatctcatag  | ggcagggtgca | aaataggaat  | gttgttctca  | agtgtcacct  | 1260 |
| ccagcccaga  | ggtggttcc   | taggcagcat  | ctgctcctgg  | gagcctctga  | cttttgctgg  | 1320 |
| aagcaccac   | agtttggag   | gggcaagacc  | tcaacctgtt  | gggttttagg  | gcccattgatg | 1380 |
| gcagacattc  | taccctttt   | cctggaaaaa  | ctggaagaat  | gaaaataatt  | tttttctgtg  | 1440 |
| gaagagagaa  | aatgagtga   | tattcttctc  | acttttattg  | atgcattcag  | agaataagca  | 1500 |
| atgaaatatt  | aaaaaatgaa  | acatcatata  | ggtcatcata  | cttgaaaatt  | atcattccat  | 1560 |
| atgaaaggat  | catgatacac  | acaaaaaag   | taatgatcgt  | aaagacacaa  | atcctctgta  | 1620 |
| tgccatcttg  | cattggcact  | gaggtgtttg  | gtttggaata  | gggaaaaaga  | gacaggatct  | 1680 |
| cgctgtgttc  | cccagtgagg  | tcttgaactc  | gtgatcctca  | gtgatcctcc  | tgccttgacc  | 1740 |
| tcccaaagtg  | ctggattaca  | agcgtgagcc  | cctgcacccg  | gcccagcag   | ttgcttctt   | 1800 |
| ttttctcttt  | ttttttttt   | ttgagatgga  | gcctcactct  | gttgcccagg  | ctggagtgc   | 1860 |
| gtggcgcgat  | ctccactcac  | tgcaagctcc  | gcctcccggg  | ttcatgccat  | tctcctgcct  | 1920 |
| cagcctcccg  | agtagctggg  | actacaggcg  | cctgccacca  | caccagcta   | attttttgta  | 1980 |
| tttttggtac  | agacagggtt  | taccgtgtt   | agccaggatg  | gtcttgatct  | ctgatctcgg  | 2040 |
| atccgccacc  | ccggcctcca  | aagtgtctga  | ttacaagcgt  | gagccaccgg  | gccccgcaa   | 2100 |
| gcagttgtct  | atgttgcaac  | atgttggtg   | ggacttgctc  | acgggccagg  | ccaataaaat  | 2160 |
| tcttaatcct  | gcagagaggc  | agtaccctca  | tcaccccatc  | actggaaaac  | aatgttttaa  | 2220 |
| gctatcaaga  | gagggaaatgt | gcagcttggg  | tctagatgca  | tgggtttggag | gatctacctt  | 2280 |
| tggcctaaag  | ggaatgtccc  | aaacaacaga  | gccttctttg  | ctgtcactcc  | agaattctct  | 2340 |
| acacagaatt  | tcccaagtcc  | attcaggaca  | gacgcgcagt  | cctctttcaa  | tggagaaga   | 2400 |
| gaggactttt  | cccctcctga  | aaaatgactg  | gagtgtgaac  | aaggcagctc  | tgtttttcta  | 2460 |
| aataagttgt  | tcttgtgagt  | tttttctggc  | cactgggcat  | ctctgccttc  | acttttcttc  | 2520 |
| cctgcccctc  | aagctgcaga  | ccccatgacc  | acactgtctg  | cttccttgag  | cttcccgcac  | 2580 |
| gaggcttgca  | cctgggggac  | ctggagaccc  | tgcggacaga  | actgtggtg   | agccactgtg  | 2640 |
| gccaactctt  | ggggagctcc  | acagtggggg  | ttgctggtct  | gtgaggctga  | gtctccattt  | 2700 |
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| cagggaaatag | ttgctggtgt  | ctgagcacaa  | agagagcttt  | gattacctag  | agaggaaaaa  | 2820 |
| ggctgtcagc  | cagatgcagc  | caggcccagg  | ggtagatata  | ggagttgcta  | aggaaggggc  | 2880 |
| cgagccagga  | gagggcaggc  | agatccacaa  | agcccaaggg  | gatgcaggct  | gggtgtggtt  | 2940 |
| tctgagggaa  | cctaccaaat  | agcaggtaga  | tggaaatcaga | ggactcttgt  | gtcctgaaag  | 3000 |
| aacctcctta  | aaaacaacta  | aaaccaagaa  | cttctggggc  | tgtcacaca   | ttgttcaagt  | 3060 |
| caccccaaga  | tcgttctggc  | acgtgtagct  | gaacaccacc  | atctttgttc  | attctctctc  | 3120 |
| taatgggcaa  | agcaggatca  | tcgagttgaa  | aagttgtaaa  | taatgaggat  | atttatcccg  | 3180 |
| ctattttattt | tttcaataac  | tgtgacctcc  | tgcactgtga  | atgctctgtg  | acatgagatt  | 3240 |
| cttagtttaa  | taaaactgtc  | attaaatttg  | aaaaaaaaa   | aaaaaaaaa   | aaaaaaaaa   | 3300 |
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<210> 611  
 <211> 866  
 <212> DNA  
 <213> Homo sapiens

<400> 611  
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 tttttctttc tgatgaagaa ttccctgtga gtaggaccca gaacataggc ctttgtcatt 180  
 tcaacccttc gttctctgaa taggctgttt attggcaaca ttaactggaa acattttatg 240  
 tacagcattg gagtctcact ctgtcgcctc agctcactgc aacctccgcc tcctgggttc 300  
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 ttactataaa ggtagcatgc gtaggcatga atcttgataa gacaagattc tgatccgggg 540  
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 ctggtttttt tttttttttt tttgaaatgc actccagcct gggcgacaag agtgaaactc 780  
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 agaaaagaaa gaaaaaaaaa aaaaaa 866

<210> 612  
 <211> 2950  
 <212> DNA  
 <213> Homo sapiens

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 ccggggcgcgc tggagaggac gcgaggagcc atgaggcgcc agctgcgaag gtggcggcgc 180  
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 gtgtgcgggc cctctccata cagaggctgt ggtacttctg gttccttctg atgatgggcg 360  
 tgcttttctg ctgcgagcc ggcttcttca tccggaggcg catgtacccc ccgccgctga 420  
 tcgaggagcc agccttcaat gtgtcctaca ccaggcagcc cccaaatccc ggcccaggag 480  
 cccagcagcc ggggcccgcc tattacacyg acccaggagg accggggatg aacctgtcgc 540  
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 ccaagtagtg gggtgccac gtgcaagagg agagacagga gagggccttt ccctggcctt 720  
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 ctgatatcct cacagcaagc acagctctct ttcaggcttt ccatggagta caatatatga 840  
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 ggtctccttc cctcaggcag ctccagtggg gggttctgaa ggggtgctttc aaaacggggc 1620  
 acatctggct gggaagtcac atggactctt ccaggagag agaccagctg aggcgtctct 1680  
 ctctgaggtt gtgttgggtc taagcgggtg tgtgctgggc tccaaggagg aggagcttgc 1740

|            |             |            |             |            |             |      |
|------------|-------------|------------|-------------|------------|-------------|------|
| tgggaaaaga | caggagaagt  | actgactcaa | ctgcaactgac | catgtgtca  | taattagaat  | 1800 |
| aaagaagaag | tggtcggaaa  | tgcacattcc | tggataggaa  | tcacagctca | ccccaggatc  | 1860 |
| tcacaggtag | tctcctgagt  | agttgacggc | tagcggggag  | ctagttccgc | cgcatagtta  | 1920 |
| tagtgttgat | gtgtgaacgc  | tgacctgtcc | tgtgtgctaa  | gagctatgca | gcttagctga  | 1980 |
| ggcgcctaga | ttactagatg  | tgctgtatca | cggggaatga  | ggtgggggtg | cttatttttt  | 2040 |
| aatgaactaa | tcagagcctc  | ttgagaaatt | gttactcatt  | gaactggagc | atcaagacat  | 2100 |
| ctcatggaag | tggatacggg  | gtgatttggt | gtccatgctt  | ttcactctga | ggacatttaa  | 2160 |
| tcggagaacc | tcctggggaa  | ttttgtggga | gacacttggg  | aacaaaacag | acaccctggg  | 2220 |
| aatgcagttg | caagcacaga  | tgctgccacc | agtgtctctg  | accaccctgg | tgtgactgct  | 2280 |
| gactgccagc | gtggtacctc  | ccatgctgca | ggcctccatc  | taaatgagac | aacaaagcac  | 2340 |
| aatgttcact | gtttacaacc  | aagacaactg | cgtgggtcca  | aacactcctc | ttcctccagg  | 2400 |
| tcatttgttt | tgcatTTTTA  | atgtctttat | tttttghtaa  | gaaaaagcac | actaagctgc  | 2460 |
| ccctggaatc | gggtgcagct  | gaataggcac | ccaaaagtcc  | gtgactaaat | ttcgtttgtc  | 2520 |
| tttttgatag | caaatttatgt | taagagacag | tgatggctag  | ggctcaacaa | ttttgtattc  | 2580 |
| ccatgtttgt | gtgagacaga  | gtttgttttc | cctgaactt   | ggttagaatt | gtgctactgt  | 2640 |
| gaacgctgat | cctgcatatg  | gaagtccrc  | ttcggtgaca  | tttcttgccc | attcttgttt  | 2700 |
| ccattgtgtg | gatgggtgggt | tgtgcccact | tcttgagtg   | agacagctcc | tgggtgtgtag | 2760 |
| aattcccggg | gcgtccgtgg  | ttcagagtaa | acttgaagca  | gatctgtgca | tgcttttcct  | 2820 |
| ctgcaacaat | tggctcgttt  | ctcttttttg | ttctcttttg  | ataggatcct | gtttcctatg  | 2880 |
| tgtgcaaaat | aaaaataaat  | ttgggcaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | 2940 |
| aaaaaaaaag |             |            |             |            |             | 2950 |

<210> 613

<211> 1769

<212> DNA

<213> Homo sapiens

<400> 613

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| gccatcactg  | tttctttgac  | gtgtacatcc  | catcctgaga  | tgcagctggg  | ctgggagccg  | 120  |
| ccacctgggt  | ggatctgatt  | cctggatttc  | cccacctctg  | ggasaggtga  | cccatcctgt  | 180  |
| tctcctcctt  | aggtccatgt  | gaaatctgar  | gtccttgctg  | tcaagttgtc  | acaagaaata  | 240  |
| aactacgcaa  | agagcctcta  | ctatgaacag  | cagcttatgt  | taagactcag  | cgaaaaccga  | 300  |
| gagcagctgg  | agctggactc  | ctgaagcccc  | gctgctgaga  | tgggcgctcc  | cgacacagcg  | 360  |
| cagacccacc  | aggaggaag   | aggcccagt   | ctcagctgac  | gatggaggca  | gaaccggagt  | 420  |
| cgggtttggg  | gaagttgtca  | aggaatgagg  | gaaagtataat | cctcatgagg  | aaaagtacaa  | 480  |
| atggaaatcg  | tattaatttg  | tgaggcaggg  | agttatttta  | gattatggga  | aataattttt  | 540  |
| aaaggtattg  | gttaaataac  | gtttaaaaac  | atgtactgag  | atgaatctaa  | tttttagatt  | 600  |
| gccctgtatt  | ttgttaacat  | gtatatatgt  | acaacagtgt  | gtttgtaaat  | atataggaac  | 660  |
| gtttctgaac  | agggctctgt  | ctatgtgtaa  | aggtttgtta  | actgtaaagt  | aatataaagt  | 720  |
| tatattggat  | cttctattgc  | actaattcta  | gatgtctaata | tcaggataact | gtctatagaa  | 780  |
| aggcattctt  | aaaagttaaa  | gattgttacg  | tcttagtttt  | ggagactaaa  | gtattcccag  | 840  |
| taaagtgggt  | tgaggtgagg  | gctgtggtcc  | tgaaggggac  | gcctttgaca  | tcgtggctgt  | 900  |
| ccagttgggc  | tgtgagctgt  | ggcaccacag  | actggcgctg  | gcccttcaga  | aggatctagg  | 960  |
| agaggggctt  | gggagcccac  | ttttaatttc  | tcacccccat  | tttaciaaaga | gtgttagat   | 1020 |
| tcttacaaat  | tatgatgtaa  | gttatccatt  | tggctttttc  | ctaactagtc  | ttaccaaact  | 1080 |
| tagggggaaa  | cctgtgctcc  | attaccacat  | gggtgcaagt  | cagcattgta  | agttttctca  | 1140 |
| ggttattatt  | attagagagg  | ttggaaacat  | tggtaaactc  | tgttgattga  | gaaggaaaaa  | 1200 |
| aaaagtccca  | ttgaactgtt  | gcaacaaatc  | agaaatccac  | ataaaagtgc  | tctcctgcct  | 1260 |
| gggcagcaac  | aaccaagaac  | aaagccccgg  | gactgttttc  | tttttaataa  | agccacaggc  | 1320 |
| aggcatcgta  | gctccacagc  | ccgagggggac | acaggatgga  | aaccccagga  | tgagaaggga  | 1380 |
| gcaggggagag | ttccagaaaag | ggggatgaaa  | taggagtatt  | aaaaagctgc  | gttggttaagt | 1440 |
| ttttcatgga  | accaagattt  | gacaaaggca  | tctcttatcc  | ttggttttta  | attcctgctg  | 1500 |
| ggagcaaggc  | ctggtatgag  | cgccctgggt  | cttgtttttg  | gtgtttcgct  | tttctgtaag  | 1560 |
| gattaagcag  | atagggagaa  | gggaaaaggg  | gcctcacttt  | agaatgaatg  | agtcaccttg  | 1620 |
| tgatttttaa  | atttttattt  | taataaagct  | aatcaatttc  | taaaaaaaaa  | aaaaaaaaaa  | 1680 |
| aaaaaaaggg  | cggccgctct  | agaggatccc  | tcgagggggc  | caagcttacc  | gtgcatgcga  | 1740 |

cggtatagct ctctcctata gtgagccta

1769

<210> 614

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 614

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gacatctgga acatccatgg gaaagaatca tgtgatgtac agctttatat aaagagacaa     180
tctgaacact ccattcttagc aggagatccc tttgaactag aatgccctgt gaaatactgt     240
gctaacaggg ctcattgtgac ttggtgcaag ctcaatggaa caacatgtgt aaaacttgaa     300
gatagacaaa caagttggaa ggaagagaag aacatttcat ttttcattct acattttgaa     360
ccagtgtctc ctaatgacaa tgggtcatac cgctgttctg aaattttca gtctaattctc     420
attgaaagcc actcaacaac tctttatgtg acagggtgagt tctcaacacc tagaccatct     480
gatatttttc ttataatgtt tccaggaaga ggggggttca gtttctcaag tgattatgtt     540
agaaagccaa ctctatagc acatctgaaa tctgctacac ctacagatt gttatgtgcc     600
agtgtgtaca tatgtgtgtg tatgtgtgcg tttgaggtga gtgagataga ggagagtaga     660
gaaatagata gtaaaagtta ttgtttttga ctttagggat tataaaattt atttgataag     720
tccaaaagta gaccactgaa atattgaaaa aattataaag tgaataccta tagttgcgaa     780
tagctctgtg attgcttgtc cttctttgtt gtttttttt tctctttttc ccatttttct     840
cttctttact tttgttcatt acaatttctt gaagttatgt ttgtgggtgct taggcaatta     900
aacacttctt aatagttcac agtttgttta gaggaacaa acgaaacaac taactgactt     960
cctagtgatt ttctgggaat attcagagct tcatctctct tccctgttcc ccgaaagagg    1020
cctttaatat gctttgacaa ctgaggaagg acagatagaa gttaagcttg gggaaaccaa    1080
gctgaataaa acatgaaaaa atacataggg ggggagtagg taagagtaaa aaatacttgg    1140
tttataaaaa ttttatagcc aacatcatat tcaatgggtg aaggcttaga gctttcccc    1200
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aaattctagc cagagcaaac aggcaagaac aagaaataaa agatatctaa cttagaaaaa    1320
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ttgtttaaaa ctattaaagc taatacatga attttagcaat tccacatgat acaggatcaa    1440
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ggaacagttt ccatttacia tagcatcaaa atgaataaaa tatttaagta caaatttaac    1560
caaagaggta taagagttgt acactgaaca aagaaagcat ggctgaaaga aattcaagaa    1620
tatgtaaata aatgcaaaga cattdgtat tcatggactg aaagatgtaa tattgtaaag    1680
atagcaatat tccccaaagt gatctacaga ttcaatgcag ttccactaaa atcctaacag    1740
ctttttgttg ctattgcaga aataaaaaag ctgactctaa aattcacatt gagttgcaac    1800
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tttcaaaact tactacaaaa tgacagttaa aaaaaaaaaa aaa                      1903
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<210> 615

<211> 1051

<212> DNA

<213> Homo sapiens

<400> 615

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gcagcatccc ggcggcggcg cggatccctg gccccatggg gccctatgg ggggcgcccc     180
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cctctatcag ctacgcgggg gacccctctg cttcctgtct gacctgcggc agtatctggg     300
aaattccact tacttggatg accatggacc acctcctagt aaggctactac ctttcccaag     360
ccagggtggg tacaacaggg taggcaagtk tgggagccgt actgtgggtc tgcttctgag     420
aatcttgtcg gagaagcacg gatttaattt ggtcacatca gacattcaca acaaaaccag     480
gcttactaaa aatgaacaa tggaactgat taaaaatata agtactgccg aacaacccta     540
tttattcact cgacatgttc atttcctcaa cttctcaagg tttggaggag accagcctgt     600
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|            |            |             |            |             |            |      |
|------------|------------|-------------|------------|-------------|------------|------|
| ctacatcaac | atcattagag | accccggtcaa | ccggttctta | tccaactatt  | ttttccgtcg | 660  |
| ctttggagac | tgagagggg  | aacaaaatca  | catgatccgc | acccccagcat | gaggcagga  | 720  |
| ggagcgctac | ctggatatca | atgagtgtat  | tcttgaaaac | tatcccgagt  | gctccaaccc | 780  |
| caggttat   | tacatcat   | cgyacttkkg  | tgacagcat  | ccagatgca   | gggagcctgg | 840  |
| tgaatggg   | cttgagagag | caaagctgaa  | cgtgaatgaa | aacttcctgc  | tcgtggggat | 900  |
| tcttgaagag | ttggaagatg | tgctgctgtt  | actggaaaga | tttttacctc  | attacttcaa | 960  |
| ggsgtgctc  | agtactacaa | agaccagag   | cacaggaagc | ttgaaacat   | gactgtgacg | 1020 |
| gtgaagaaga | ctgtcccctc | tcctgaggct  | g          |             |            | 1051 |

<210> 616  
 <211> 1317  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |             |      |
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| ccacgcgtcc  | ggacgcgcc  | acctccggaa  | caagccatgg | tggcggctac | ggtggcagcg  | 60   |
| gcgtgggtgc  | tcctgtgggc | tgccgcctgc  | gcgcagcagg | agcaggactt | ctacgacttc  | 120  |
| aaggcgggtca | acatccgggg | caaactgggtg | tcgctggaga | agtaccgcgg | atcgggtgtcc | 180  |
| ctggtggtga  | atgtggccag | cgagtgcggc  | ttcacagacc | agcactaccg | agccctgcag  | 240  |
| cagctgcagc  | gagacctggg | ccccaccac   | ttcaacgtgc | tcgccttccc | ctgcaaccag  | 300  |
| tttggccaac  | aggagcctga | cagcaacaag  | gagattgaga | gctttgccc  | ccgcacctac  | 360  |
| agtgtctcat  | tccccatgtt | tagcaagatt  | gcagtcaccg | gtgtgtgc   | ccatcctgcc  | 420  |
| ttcaagtacc  | tggcccagac | ttctgggaag  | gagccacct  | ggaacttctg | gaagtaccta  | 480  |
| gtagccccag  | atggaaaggt | ggtaggggct  | tggaaccaa  | ctgtgtcagt | ggaggaggtc  | 540  |
| agacccag    | tcacagcgct | cgtgaggaag  | ctcatcctac | tgaagcgaga | agacttataa  | 600  |
| ccaccgcgtc  | tcctcctcca | ccacctcatc  | ccgccacct  | gtgtggggct | gaccaatgca  | 660  |
| aactcaaatg  | gtgcttcaaa | gggagagacc  | cactgactct | ccttccttta | ctcttatgcc  | 720  |
| atttgtccca  | tcattcttgt | gggggaaaaa  | ttctagtatt | ttgattattt | gaatcttaca  | 780  |
| gcaacaaata  | ggaactcctg | gccaatgaga  | gctcttgac  | agtgaatcac | cagccgatac  | 840  |
| gaacgtcttg  | ccaacaaaaa | tgtgtggcaa  | atagaagtat | atcaagcaat | aatctccac   | 900  |
| ccaaggcttc  | tgtaaactgg | gaccaatgat  | tacctcatag | ggctgttgtg | aggattagga  | 960  |
| tgaataacct  | gtgaaagtgc | ctaggcagtg  | ccagccaaat | aggaggcatt | caatgaacat  | 1020 |
| tttttgacac  | taaacaaaaa | aataacttgt  | tatcaataaa | aacttgcata | caacatgaat  | 1080 |
| ttccagccga  | tgataatcca | ggccaaaggt  | ttagttgttg | ttatttcctc | tgtattattt  | 1140 |
| tcttcattac  | aaaagaaatg | caagttcatt  | gtaacaatcc | aaacaatacc | tcacgatata  | 1200 |
| aaataaaaaa  | gaaagtatcc | tcctcaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 1260 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaa     | 1317 |

<210> 617  
 <211> 1138  
 <212> DNA  
 <213> Homo sapiens

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|------------|------------|------------|-------------|------------|------------|-----|
| <400> 617  |            |            |             |            |            |     |
| ccacgcgtcc | gggcgcctgt | agtcccagct | attcaggagg  | ccgaggcagg | agaattgcct | 60  |
| gaactcagga | ggcggagtgt | cagtgaagcc | agatcgcgcc  | attgcactcc | agcctgggtg | 120 |
| acagagtgag | actctttctc | ccccaaaaaa | aaaaaaaaaa  | aaagtcaa   | gcagctggga | 180 |
| atgtgggttc | tgcctttttg | tatattaacc | atttgaaact  | tgggtgtaag | gtgggggttg | 240 |
| caatgtcagg | cctggctgca | gcagctcatg | ttttagagt   | gtgcctcttc | cctctctcgt | 300 |
| ggggctcgag | caagactacc | ttcatacatg | ggctctccag  | ttacatagca | actccagtgt | 360 |
| taaattccat | cttttcttcc | tggaaaagcc | gtagaaagga  | cacctggaca | tgctgtctgc | 420 |
| acaggttgct | tgccttcccc | atcagccgca | gaaggaggaa  | ctttgctctc | ttctctcaca | 480 |
| gctgtgtgtg | cataagaagt | agttcggatg | atgtgggtcc  | caccatgtat | tccttctctg | 540 |
| ttccatgtag | agtaaaataa | atgggagttc | tgtttaaatg  | atcacctcgg | ttcatattgc | 600 |
| atttgccaag | aaagtgcaat | tttattgaac | attaggattg  | aattcttaac | tgagtaatac | 660 |
| atttcagtag | taagttaaaa | tgcttcttat | taatggacaa  | ctgcaaccgt | taatcagagt | 720 |
| tacagtagat | taacagttgt | cagcatttat | gctaataagca | ctaataaacc | gtgggctcat | 780 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| gatttgcact | ttataattcc | atattttctca | aaacagttgg | taatactttt | tgcttgaagg | 840  |
| tattgattct | tttgtccctt | tgcttgctac  | ttggagatgt | agagaaagct | aaatgatt   | 900  |
| ttcacggtga | tgacacaata | tcaccttctg  | cttttgcaca | cttggctttg | tgtcaaaata | 960  |
| gatggaaagg | gttcattttg | tctgggtgctc | tactgtttaa | tttgatctgg | tgtgtgacta | 1020 |
| aagcaagaca | aatagtat   | ttaatgaaac  | catttaataa | cctctggtag | cttagagtcg | 1080 |
| aaggcattgg | aaaaatgcaa | ttaaaggatg  | cctagatgta | aacaaaaaaa | aaaaaaa    | 1138 |

<210> 618  
 <211> 1841  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| <400> 618   |             |             |            |             |            |      |
| ncccgccccg  | ctgccgcagg  | gactgggagc  | gggctccgca | gcgcactcta  | gccccgct   | 60   |
| cggctcagtc  | ggctctgcgag | gateccggccc | gccgcccccc | gggggacccg  | atggcctcgg | 120  |
| agggccctggc | gggggcgctg  | gcttccgtgc  | tggttgccca | gggtccagc   | gtgcacagct | 180  |
| gcgactcggc  | gccggccggg  | gagccgcggg  | cgcccgtgcg | gctgcggaag  | aacgtgtgct | 240  |
| acgtggtgct  | ggccgtgttc  | ctcagcgagc  | aggatgaggt | gctactgac   | caggaggcca | 300  |
| agagggagtg  | ccgggggtcg  | tggtacctgc  | ctgcggggag | aatggagcca  | ggggagacca | 360  |
| tcgtggaggc  | gctgcagcgg  | gaggtgaagg  | aggaggcggg | gctgcactgt  | gagcccgaga | 420  |
| cactgctgtc  | cgtggaggag  | cggggccccct | cctgggtccg | cttcgtgttc  | tcgctcgcc  | 480  |
| ccacaggtgg  | aattctcaag  | acttccaagg  | aggccgatgc | ggagtccctg  | caggctgcct | 540  |
| ggtaccacac  | gacctccctg  | cccactccgc  | tgcgagccca | tgacatcctg  | cacctggttg | 600  |
| aactagccgc  | ccagtatcgc  | cagcaagcca  | ggcaccctct | cattctgccc  | caagagctac | 660  |
| cctgtgatct  | ggctctgccag | cggctcgtgg  | ctacctttac | cagcgcccag  | acagtgtggg | 720  |
| tgtagtgagg  | cacagtgggg  | atgcctcact  | tgctgtcac  | tgctgtggc   | ctcgaccctg | 780  |
| tggagcagag  | gggtggcatg  | aagatggccg  | tcctgcggct | gctgcaggag  | tgtctgacct | 840  |
| tgcaccactt  | ggtggtggag  | atcaaggggt  | tgcttggact | gcagcactg   | ggccgagatc | 900  |
| acagtgatgg  | catctgtttg  | aatgtgctgg  | tgaccgtggc | ttttcggagc  | ccagggatcc | 960  |
| aggatgaacc  | cccaaaagtt  | cgggggtgaga | acttctcttg | gtggaagggtg | atggaggaag | 1020 |
| acctgcaaag  | ccagctcctc  | cagcggcttc  | agggatccct | tggtgtccca  | gtgaacagat | 1080 |
| agagaggtgg  | aggaggtgac  | aggagagctag | gcagccgtgc | tcctccagct  | gcggacttgt | 1140 |
| ctccctctga  | gggaggcaag  | aggctggcga  | tcagggatct | tggtgcattg  | ggagcagggg | 1200 |
| cggctctcct  | ggtccccagg  | agagatgctt  | tgaggagcat | tcctctagat  | tgcaaaagg  | 1260 |
| acagtgcctt  | taaccaagcg  | aggagtccaa  | agctcaggac | ctgactacc   | tgagggcacg | 1320 |
| ctgacgcctc  | tccccagggg  | gatggggagc  | tttctgcacc | cccagtggca  | tctcctcatc | 1380 |
| acgttctgtg  | ccgtccttgg  | gaaaggcctg  | cattctgac  | cttccaggcc  | cttcgagcat | 1440 |
| ggaggggcac  | tggggaagggt | cccccgaggg  | aggagcacgt | tgctgagtaa  | agaggtgtta | 1500 |
| ctcaccttgc  | ctccctgcct  | acacgtctct  | gtggggagaa | agtgatgggg  | actactgtcc | 1560 |
| aggagctgct  | gctccctcgt  | tgttacccac  | aggcacccat | gcctttccca  | gtgactgac  | 1620 |
| agtgcggggc  | agtctgctgt  | ccagcacggc  | ccctggggct | ccctccagtt  | ggcctgctgg | 1680 |
| cccgggatgt  | gactctgagg  | ggacccatcc  | ctaatgaaac | acagctctga  | gccctccaag | 1740 |
| ggttgggcag  | tgggcggccc  | cagaggaact  | tcaagtggga | caggagctgc  | aggtgctgcc | 1800 |
| tctgctctct  | ccttgagcct  | ccctggcgca  | gaccactccc | c           |            | 1841 |

<210> 619  
 <211> 1133  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1061)..(1061)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1078)..(1078)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1102)..(1102)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1107)..(1107)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1111)..(1111)  
 <223> n equals a,t,g, or c

<400> 619  
 ggggcggcgc gctccctgcc tgctgctggg cggagggaag gcggcaagag ctgctggagcc 60  
 cctggaagag cttccaggaa ccctgcgctg tgggataaag gatgagggt cagaaagggg 120  
 cagggagttg cccgcagccg caccgcacgt cttcagccc accgttgctc tgacctctct 180  
 gtcccgctcc ctgcccagtc tcacatggc cttctggaca cagctgatgc tgctgctctg 240  
 gaagaatttc atgtatcgcc ggagacagcc ggtccagctc ctggtcgaat tgctgtggcc 300  
 tctcttcttc ttcttcatcc tgggtggctgt tcgccactcc caccgcgcc tggagcacca 360  
 tgaatgccac ttcccaaaca agccactgcc atcggcgggc accgtgccct ggctccaggg 420  
 tctcatctgt aatgtgaaca acacctgctt tccgcagctg acaccgggcg aggagcccgg 480  
 gcgcctgagc aacttcaacg actccctggt ctcccgctg ctagccgatg cccgcactgt 540  
 gctgggaggg gccagtggcc acaggacgct ggctggccta gggaagctga tcgccacgct 600  
 gagggctgca cgcagcacgg cccagcctca accaaccaag cagtctccac tggaaccacc 660  
 catgtggatg gtcgcggagc tgctgacgtc actgctgcgc acggaatccc tgggggtggc 720  
 actggggcca gccagggagc ccttgacag cttgttgagg gccgctgagg acctggccca 780  
 ggagctcctg gcgctgcgca gcctgggtgga gcttcgggca ctgctgcaga gaccccgagg 840  
 gaccagcggc cccctggagt tgctgtcaga ggccctctgc agtgtcaggg gacctagcag 900  
 cacagtgggc ccctccctca actggtacga gctagtgc ctgatggagc tgggtgggca 960  
 rgarccagaa tccgcctgca gacagcagct gagcccgctg ctcgagctk attggagcct 1020  
 ggacagcacc cgggtgtccgc tgggtctggaa cgtgaagct ntatcctcgg aagtactntt 1080  
 gacagatcac tttaccgaag tnatggnacg ngaacgactt cagagttacc tgt 1133

<210> 620  
 <211> 753  
 <212> DNA  
 <213> Homo sapiens

<400> 620  
 cccacgcgtc cgactgctta tatttggcat tgtcttttcc ctggcactgc cactgtcacc 60  
 accatcccc ttctggatcc ctactttacc ccttcatgct gctctgggtg cagtgcctct 120  
 gctgccatgc tgtacttgag cctgctgcta agccatgcc tgaagatgca gcccttctct 180  
 ctcttctctgt cccaccaaata atgaccagct ctaggttcca ttacttctgg actttgctcc 240  
 aaataaaact tacacaattt tattccaaac ccaggtctct ttctgcaaca cccgagaaaa 300  
 atattgggct gcaggagcca gagaggagag agagatttac tggtagaggt tgtagggtgg 360  
 aattgaaaaa ccaagtcagt tctttgcccc accagaaact cactaggatg tacacaatgc 420

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| cactgtgatg | gttttaaaat  | atgtaactaa | cctgcacggt | gtgcacatgt  | accctaaaac | 480 |
| ttcaagtata | tataaaaaaa  | gaaagaactg | ctgatacaca | tatcatgaaa  | aaagacccaa | 540 |
| taaaataaaa | aaataaaaaat | aaataaataa | aataaaatat | gtccacaaat  | gctttgatgt | 600 |
| tcctttgttt | cttgatctgt  | atgctagcaa | cacaggttca | ttccgtttgt  | gaaaattcat | 660 |
| tgagctgtgc | tcttatgagc  | tgtgtacttc | tctacatgta | tgttaaattgt | ggacaagaac | 720 |
| ttcacataaa | aatcatttta  | aaaaaaaaaa | aaa        |             |            | 753 |

<210> 621  
 <211> 1604  
 <212> DNA  
 <213> Homo sapiens

|            |             |                         |              |            |                         |      |
|------------|-------------|-------------------------|--------------|------------|-------------------------|------|
| <400> 621  |             |                         |              |            |                         |      |
| ccacgcgtcc | ggcagacaca  | ggcacttatt              | cattcatctc   | attgaaaagc | tacgagttgg              | 60   |
| ttccttattg | cctctccata  | atagaaaaac              | tctttaatga   | gctctctttt | tgtttttcaa              | 120  |
| atcagatatg | caaagaagct  | cataa <del>a</del> aatt | ttttttaaaa   | atgcaaaaca | agaatctcca              | 180  |
| attatgggag | caaaatcttc  | agcttctggg              | ttcctgtctc   | actgaggaaa | tggatttgaa              | 240  |
| atggcaagga | ggaaatgagg  | aggcaaactt              | tcatgtctat   | tttagttttc | caatgcagtc              | 300  |
| ctatttcctt | tggactttgt  | ataaacaagg              | aaaggacagt   | tgttagttca | gttata <del>a</del> cag | 360  |
| ataacctgtg | tctttaaagt  | aaatgtatct              | taaataagta   | ggactcccat | aaatgactac              | 420  |
| actttttcaa | aatatgactc  | cccagcttat              | aacaagaata   | atagcaaaca | tcactttatt              | 480  |
| aagcaattac | tatgtaaaag  | acacttagtg              | cttagcacac   | actggaaata | ttgttgactg              | 540  |
| gctatatttt | cccagaaaat  | cccatttctg              | aaagcctatt   | acaaagaaat | aaaatcatca              | 600  |
| gtataacaaa | ggagtgtgtg  | tgtgtgtggg              | tgtgagtgtg   | tgtgggtgtg | agtgtgtggg              | 660  |
| gggtgtgagt | gtgtgtgggt  | gtgagagtgt              | gtgtgtgagt   | gtgagtgtgt | gtgtgtgtaa              | 720  |
| gtgcacacac | atgttgtagt  | attgttcata              | gtggcaaaaa   | ctagaacaaa | agtgaatatt              | 780  |
| gataacatgg | gcacagatga  | caaattatat              | ctccaaatta   | tgaacagaa  | tccagccatt              | 840  |
| aaaatcagag | ctttgccacg  | tgactaggat              | gaagttacaa   | aaagtattgt | tgagtgagaa              | 900  |
| aagcaggata | cataaggata  | atggaattga              | gtataaatag   | atttcttttt | tttttttttt              | 960  |
| gagatggagt | ctcgtctgt   | cactcaggct              | ggagtgcagt   | ggcacaatct | cagctcactg              | 1020 |
| caacctccgc | ctcccggtat  | caagcaattc              | tcctccctca   | gcctcctgag | tagctgggac              | 1080 |
| taccgtcacc | tgccaccacg  | ccccagctaa              | tttttgtatt   | tttagtagag | atgggctttc              | 1140 |
| accatattgg | tcacgctgat  | ctcaaaatcc              | tgacctcagg   | tgatcacct  | gcctcagcct              | 1200 |
| cccaaagtgc | tgggattaca  | gtcgtgagcc              | actgcacctg   | gccgatttct | tttttaaaat              | 1260 |
| gatcaaaaaa | ccattttatat | gtgggaatat              | agctatatac   | ttttattatt | gaattaccat              | 1320 |
| ggaaaaaaac | atggaagagg  | gaggccaagg              | caggagaatc   | acttgaggcc | caggagtttg              | 1380 |
| agaccagcct | ggccaacaaa  | gcgagaccct              | catctctact   | aaaaatacaa | aaattacctg              | 1440 |
| ggcctggtga | cacatgcctg  | taatcccagc              | tactcagaag   | actaaggcaa | gtgaatcgct              | 1500 |
| tgaacccgag | acgtggagggt | tgcagtgaag              | tgagccaaga   | tcgcgccgtt | gcactccagc              | 1560 |
| ctggtgacag | agtgagagtc  | tttctcaaaa              | aaaaaaaaaaaa |            |                         | 1604 |

<210> 622  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 622   |            |            |            |            |            |     |
| ccacgcgtcc  | ggataggcac | aggacaggag | taggcacctc | gcctactgct | gcttaacctt | 60  |
| tcagcttctc  | caggccccca | atcctgcttg | ctcccagctt | gggaacgaga | cactgctgag | 120 |
| ctggaagact  | tcgcgggcca | caggcacagc | cttccctgtg | ctggcggcgc | tgctggggct | 180 |
| gcctggcaac  | ggcttcgtgg | tgtggagctt | ggcgggctgg | cggcctgcac | gggggcgacc | 240 |
| gctggcggcc  | acgcttgtgc | tgcacctggc | gctggccgac | ggcgcgggtg | tgctgctcac | 300 |
| gccgctcttt  | gtggccttcc | tgacctggca | ggcctggcg  | ctgggccagg | cgggctgcaa | 360 |
| ggcgggtgtac | tacgtgtgcg | cgctcagcat | gtacgccagc | gtgctgctca | ccggcctgct | 420 |
| cagcctgcag  | cgctgcctcg | cagtcacccg | cccttcctgg | cgcctcggct | gcgcagcccg | 480 |
| gcctggcccc  | ccgctgctgc | tggcggtctg | gctggccgcc | ctggtgctcg | ccgtcccggc | 540 |
| cgccgtctac  | cgccacctgt | ggagggaccg | cgtatgccag | ctgtgccacc | cgctcgccgt | 600 |



|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ccacgccgcc | gccacactga | gcctggagac | tctgaccgct | ttcgtgcttc | ctttcgggct | 660  |
| gatgctcggc | tgctacagcg | tgacgctggc | acggctgcgc | ggcgcccgc  | ggggctccgg | 720  |
| gcggcacggg | gcgcgggtgg | gccggctggg | gaagccatc  | gtgcttcctt | cggcttgctc | 780  |
| tgggccccct | accacgcagt | caaccttctg | caggcggtcg | cagcgctggc | tccaccggaa | 840  |
| ggggccttgg | cgaagctggg | cggagccggc | caggcggcgc | gagcgggaac | tacggccttg | 900  |
| gccttcttca | gttctagcgt | caaccggtg  | ctctacgtct | tcaccgctgg | agatctgctg | 960  |
| ccccgggcag | gtccccgttt | cctcacgcgc | ctcttcgaag | gctctgggga | ggccccaggg | 1020 |
| g          |            |            |            |            |            | 1021 |

<210> 623  
 <211> 985  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 623   |            |             |            |             |            |     |
| nagccggtcc  | aggcctctgg | cgaacatggc  | gcttgtcccc | tgccagggtgc | tgccgatggc | 60  |
| aatcctgctg  | tcttactgct | ctatcctgtg  | taactacaag | gccatcgaaa  | tgccctcaca | 120 |
| ccagacctac  | ggaggagct  | ggaaattcct  | gacgttcatt | gatctgggta  | tccaggctgt | 180 |
| cttttttggc  | atctgtgtgc | tgactgatct  | ttccagtctt | ctgactcgag  | gaagtgggaa | 240 |
| ccaggagcaa  | gagaggcagc | tcaagaagct  | catctctctc | cgggactgga  | tgtagctgt  | 300 |
| gttggccttt  | cctgttgggg | ttttgttgt   | agcagtgttc | tggatcattt  | atgcctatga | 360 |
| cagagagatg  | atatacccg  | agctgctgga  | taattttatc | ccagggtggc  | tgaatcacgg | 420 |
| aatgcacacg  | acggttctgc | cctttatatt  | aatcgagatg | aggacatcgc  | accatcagta | 480 |
| tcccagcagg  | agcagcggac | ttaccgccat  | atgtaccttc | tctgttggct  | atatattatg | 540 |
| ggtgtgctgg  | gtgcatcatg | taactggcat  | gtgggtgtac | cctttcctgg  | aacacattgg | 600 |
| cccaggagcc  | agaatcatct | tctttgggtc  | tacaaccatc | ttaatgaact  | tcctgtacct | 660 |
| gctgggagaa  | gttctgaaca | actatatctg  | ggatacacag | aaaagctgtg  | catttgatc  | 720 |
| agctgctatt  | tggcaatacg | aatcactgaa  | atccaggggt | ccagagttat  | tttgatggca | 780 |
| taaaagctga  | ttggttggat | agcataagac  | cacaaaaaga | aggagacttc  | agaaaggaga | 840 |
| ttaacgaacg  | gtggaataac | ctaagtgtatg | gccagcggac | tcaggatatca | tagctgcaaa | 900 |
| cgtccttgta  | ttctgtttgt | ggagagtacc  | ttctctgcag | tggacagtga  | tctgatattt | 960 |
| caaactcttat | ccagcctcca | aaagt       |            |             |            | 985 |

<210> 624  
 <211> 1445  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 624  |            |            |            |             |            |     |
| ggaaggctgc | aggaccagga | ccgaaaaagg | actaggaggc | tgggatcagc  | aacaactggg | 60  |
| gaaggccaag | gaagactgac | ctgaggggaa | aggagaaact | ggggagggtga | ggtctactac | 120 |
| tcaacaggat | attcttcaag | gaaatgaac  | cccacactag | gcctggccat  | ttttctggct | 180 |
| gttctcctca | cgtgaaagg  | tcttctaaag | ccgagcttct | caccaaggaa  | ttataaagct | 240 |
| ttgagcgagg | tccaaggatg | gaagcaaagg | atggcagcca | aggagcttgc  | aaggcagaac | 300 |
| atggacttag | gctttaagct | gctcaagaag | ctggcctttt | acaaccctgg  | cagaacatc  | 360 |
| ttcctatccc | ccttgagcat | ctctacagct | ttctccatgc | tgtgcctggg  | tgcccaggac | 420 |
| agcaccctgg | acgagatcaa | gcaggggttc | aacttcagaa | agatgccaga  | aaaagatctt | 480 |
| catgagggct | tccattacat | catccacgag | ctgaccacga | agaccacgga  | cctcaaactg | 540 |
| agcattggga | acacgctgtt | cattgaccag | aggctgcagc | cacagcgtaa  | gtttttggaa | 600 |
| gatgccaaag | acttttacag | tgccgaaacc | atccttacca | actttcagaa  | tttggaaatg | 660 |
| gctcagaagc | agatcaatga | ctttatcagt | caaaaaacc  | atgggaaaat  | taacaacctg | 720 |
| atcgagaata | tagacccccg | cactgtgatg | cttcttgcaa | atttatattt  | ctttcgagcc | 780 |

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| aggtggaac   | atgagtttga | tccaaatgta | actaaagagg | aagatttctt | tctggagaaa | 840  |
| aacagttcag  | tcaaggtgcc | catgatgttc | cgtagtgga  | tataccaagt | tggtatgac  | 900  |
| gataagctct  | cttgaccat  | cctggaaata | ccctaccaga | aaaatatcac | agccatcttc | 960  |
| atccttctctg | atgagggcaa | gctgaagcac | ttggagaagg | gattgcaggt | ggacactttc | 1020 |
| tccagatgga  | aaacattact | gtcacgcagg | gtcgtagacg | tgtctgtacc | cagactccac | 1080 |
| atgacgggca  | ccttcgacct | gaagaagact | ctctcctaca | taggtgtctc | caaaatcttt | 1140 |
| gaggaacatg  | gtgatctcac | caagatcgcc | cctcatcgca | gctgaaagt  | gggcgaggct | 1200 |
| gtgcacaagg  | ctgagctgaa | gatggatgag | aggggtacgg | aaggggccgc | tggcaccgga | 1260 |
| gcacagactc  | tgcccatgga | gacaccactc | gtcgtcaaga | tagacaaacc | ctatctgctg | 1320 |
| ctgattttaca | gcgagaaaat | accttccgtg | ctcttctctg | gaaagattgt | taaccctatt | 1380 |
| ggaaaataaa  | ggagaattcc | tgcttgccac | agaccccgaa | aaaaaaaaaa | aaaaaggcg  | 1440 |
| gccgc       |            |            |            |            |            | 1445 |

<210> 625  
 <211> 1699  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| <400> 625  |             |             |            |            |             |      |
| acgcgtccgc | gccaagggag  | caggacggag  | ccatggaccc | gccaggaaa  | gcaggtgccc  | 60   |
| aggccatgat | ctggactgca  | ggctggctgc  | tgctgtgtct | gcttcgcgga | ggagcgcagg  | 120  |
| ccctggagtg | ctacagctgc  | gtgcagaaaag | cagatgacgg | atgctccccg | aacaagatga  | 180  |
| agacagtga  | gtgcgcgccg  | ggcgtggacg  | tctgcaccga | ggcgtggggg | gcggtggaga  | 240  |
| ccatccacgg | acaattctcg  | ctggcagtg   | ggggttgccg | ttcgggactc | cccggcaaga  | 300  |
| atgaccgcgg | cctggatctt  | cacgggcttc  | tggcgttcat | ccagctgcag | caatgcgctc  | 360  |
| aggatcgctg | caacgccaaag | ctcaacctca  | cctcgcgggc | gctcgacccg | gcaggtaatg  | 420  |
| agagtgcata | cccgcccaac  | ggcgtggagt  | gctacgctg  | tgtgggcctg | agccgggagg  | 480  |
| cgtgccaggg | tacatgcocg  | ccggtcgtga  | gctgtacaa  | cgccagcgat | catgtctaca  | 540  |
| agggtgctt  | cgacggcaac  | gtcaccttga  | cggcagctaa | tgtgactgtg | tccttgccctg | 600  |
| tccggggctg | tgtccaggat  | gaattctgca  | ctcgggatgg | agtaacaggc | ccagggttca  | 660  |
| cgctcagtg  | ctcctgttgc  | caggggtccc  | gctgtaactc | tgacctccgc | aacaagacct  | 720  |
| acttctcccc | togaatccca  | ccccttgtcc  | ggctgcccc  | tccagagccc | acgactgtgg  | 780  |
| cctcaaccac | atctgtcacc  | acttctacct  | cggccccagt | gagaccacac | tccaccacca  | 840  |
| aacccatgcc | agcgccaacc  | agtcagactc  | cgagacaggg | agtagaacac | gaggcctccc  | 900  |
| gggatgagga | gcccagggtg  | actggaggcg  | ccgctggcca | ccaggaccgc | agcaattcag  | 960  |
| ggcagtatcc | tgcaaaaagg  | gggccccagc  | agccccataa | taaaggctgt | gtggctccca  | 1020 |
| cagctggatt | ggcagccctt  | ctggtggccg  | tggctgtctg | tgtcctactg | tgagcttctc  | 1080 |
| cacctgaaa  | tttccctctc  | acctacttct  | ctggccctgg | gtacccctct | tctcatcact  | 1140 |
| tcctgttccc | accactggac  | tgggctggcc  | cagcccctgt | ttttccaaca | ttccccagta  | 1200 |
| tccccagctt | ctgctgcgct  | ggtttgcggc  | tttgggaaat | aaaataccgt | tgtatatatt  | 1260 |
| ctgccagggg | tgttctagct  | ttttgggac   | agctcctgta | tccttctcat | ccttgtctct  | 1320 |
| ccgcttgtcc | tcttgtgatg  | ttaggacaga  | gtgagagaag | tcagctgtca | cggggaagg   | 1380 |
| gagagagagg | atgctaagct  | tcctactcac  | tttctcctag | ccagcctgga | ctttggagcg  | 1440 |
| tgggggtggg | gggacaatgg  | ctccccactc  | taagcactgc | ctccccact  | ccccgactct  | 1500 |
| ttggggaatc | ggttccccat  | atgtcttctt  | tactagactg | tgagctcttc | gagggcaggg  | 1560 |
| accgtgcctt | atgtctgtgt  | gtgatcagtt  | tctggcacat | aaatgcctca | ataaagattt  | 1620 |
| aattactttg | taaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 1680 |
| aaaaaaaaaa | aaaaaaaaaa  |             |            |            |             | 1699 |

<210> 626  
 <211> 1529  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1505)..(1505)

<223> n equals a,t,g, or c

<400> 626

|             |             |            |             |                        |      |
|-------------|-------------|------------|-------------|------------------------|------|
| gcggttgccg  | ccgccgccga  | tcagctgagc | wgagacggag  | ccgctgtcaactctccaact   | 60   |
| cagctcagct  | gatcggttgc  | cgccgcgcgc | gccgccagat  | tctggaggcg aagaacgcaa  | 120  |
| agctgagaac  | atggacgtta  | atatcgcccc | actccgcgcc  | tgggacgatt tcttcccggg  | 180  |
| ttccgatcgc  | tttgcccggc  | cggacttcag | ggacatttcc  | aaatggaaca accgcgtagt  | 240  |
| gagcaacctg  | ctctattacc  | agaccaacta | cctgggtggtg | gctgccatga tgatttccat  | 300  |
| tgtgggggtt  | ctgagtcctt  | tcaacatgat | cctgggagga  | atcgtggttg tgctggtgtt  | 360  |
| cacagggttt  | gtgtgggcag  | cccacaataa | agacgtcctt  | cgccggatga agaagcgcta  | 420  |
| ccccacgacg  | ttcgttatgg  | tggtcagtgt | ggcgagctat  | ttcctatct ccatgtttgg   | 480  |
| aggagtcagt  | gtctttgtgt  | ttggcattac | ttttcctttg  | ctgttgatgt ttatccatgc  | 540  |
| atcggtgaga  | cttcggaacc  | tcaagaacaa | actggagaat  | aaaatggaag gaatagggtt  | 600  |
| gaagaggaca  | ccgatgggca  | ttgtcctgga | tgccctagaa  | cagcaggaag aaggcatcaa  | 660  |
| cagactcact  | gactatatca  | gcaaagtga  | ggaataaaca  | taacttacct gagctagggg  | 720  |
| tgcagcagaa  | attgagttgc  | agcttgccct | tgtccagacc  | tatkttctgc ttgcgttttt  | 780  |
| gaaacaggag  | gtgcacgtac  | cacccaatta | tctatggcag  | catgcatgta taggccgaac  | 840  |
| tattatcagc  | tctgatgttt  | cagagagaag | acctcagaaa  | ccgaaagaaa accaccaccc  | 900  |
| tcctattgtg  | tctgaagttt  | cacgtgtgtt | tatgaaatct  | aatgggaaat ggatcacacg  | 960  |
| atttctttta  | gggaatttaa  | aaaaataaaa | gaattacggc  | ttttacagca acaatacgat  | 1020 |
| tattcttatag | gaaaaaaaaa  | atcattgtta | agtatcaaga  | caatacgagt aaatgaaaag  | 1080 |
| gctgttaaa   | tagatgacat  | catgtgttag | cctgttccta  | atccccatga attgtaatgt  | 1140 |
| gtgggatata  | aattagtttt  | tattattctc | ttaaaaatca  | aagatgatct ctatcacttt  | 1200 |
| gccacctgtt  | tgatgtgcag  | tggaaactgg | ttaagccagt  | tgttcatact tcstttacaa  | 1260 |
| atataaagat  | agctgttttag | gatattttgt | tacatttttg  | taaatttttg aaatgctagt  | 1320 |
| aatgtgtttt  | caccagcaag  | tatttgttgc | aaacttaatg  | tcattttcct taagatgggt  | 1380 |
| acagctatgt  | aacctgtatt  | attctggacg | gacttattaa  | aatacaaaaca gacaaaaaat | 1440 |
| aaaaacaaaa  | aaaaaaaaaa  | ggcgggcgcg | tctagaggat  | ccckcgaggg gcccaagcgt  | 1500 |
| ttcngtarg   | ttccccctaa  | agacccccg  |             |                        | 1529 |

<210> 627

<211> 1218

<212> DNA

<213> Homo sapiens

<400> 627

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| ccacgcgtcc | gatctgtctt  | tttgccttta  | gcatecta    | gagtatgaaa  | tgctatcttg | 60   |
| tggttttgat | ttgcattccc  | ctgatggcaa  | ctatgctga   | gtgtcttttc  | ctgtgcttac | 120  |
| gggccatgcg | tatttctttg  | gagaaaggtc  | tatccaggtc  | ctttgcctat  | ttttaattga | 180  |
| gttgtctttt | ttttttaagt  | tttctgtttt  | cctaaccact  | agactaccag  | ggatgagcct | 240  |
| tctttttatt | attgagttgg  | gtgagctatt  | tgtatattct  | agacgccagt  | cttttatcag | 300  |
| gtatatgact | ggtaaaaatg  | ttctcccctt  | ctgtggattg  | ttttcagttt  | ctgtgtgtg  | 360  |
| tcctttgaga | cacaaaactt  | tttaactttg  | atgatttcca  | agatacgtat  | tttttttcta | 420  |
| ttgtcacttg | tgcttttggg  | gccatatcta  | gaaaaccatt  | gcctaatacca | aggtcaagaa | 480  |
| gattaatgcc | tgtgttttct  | tctaagaact  | tgtatagttt  | tagttctcac  | aatgggtctt | 540  |
| gatccatttc | gagtatattt  | ttatatatga  | tgtgatgtag  | gggtccagct  | tcattctttt | 600  |
| gcttgtggat | ctccacttgt  | cccactgctg  | attattgaga  | aaaatatcct  | ttctccacgg | 660  |
| aattgtcttg | gcatecttgc  | ttaaaggcctc | tgcctcttac  | tggatcttct  | ttcctggga  | 720  |
| atgggtgctg | tgggaagcct  | accttttttt  | ttttttactt  | agtcctgtgt  | tggttccacc | 780  |
| agttttatgc | tgcccttcta  | ctctgttctt  | gctgtctccc  | tcctttacctg | agtcacagg  | 840  |
| actgagtcct | atctctctct  | gatgttcccc  | agtcttcctt  | ggtgcatgtt  | ctagctccac | 900  |
| acactagtcc | ttggaggaag  | gttgagacca  | atgatttcct  | gttatgagtc  | atgaggaaac | 960  |
| tgaatcacct | agaagtggaa  | taatgtgctc  | agggtcacca  | tagcccatga  | gtggaaggac | 1020 |
| caggactaga | ccttttagtct | tctgaggtcc  | agcccccttag | gctgtctgtc  | atcactgtac | 1080 |
| ccaagtgatg | tcactaccaa  | ggccaaatga  | tgggtgggcta | aatttttaatt | ctaaagtg   | 1140 |
| taggaggcta | atattgtctt  | ctaagttcca  | aaagaagatg  | taataaaaagt | ctgttacctt | 1200 |
| aaaaaaaaaa | aaaaaaaaag  |             |             |             |            | 1218 |

<210> 628  
 <211> 831  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (10)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n equals a,t,g, or c

<400> 628  
 catcnacggn naccnctact ataggtnaag ctgggtacgcc tgcaggtacc ggtccggaat 60  
 tcccgggtcg acccacgcgt ccgggggaaw tcccagtcga tttttccaag cagtactccg 120  
 cttcctggat gtgtttgtct ctcttggtcg cactggcctg ctctgctgga gacacatggg 180  
 cttcagaagt tggcaggtt ctgagtaaaa gttctccaag actgataaca acctgggaga 240  
 aagttccagt tggtagcaat ggaggagtta cagtgggtggg ccttgtctcc agtctccttg 300  
 gtggtagcctt tgtgggcatt gcatacttcc tcacacagct gatttttgtg aatgatttag 360  
 acatttctgc cccgcagtg ccaattattg catttggtgg tttagtggga ttactaggat 420  
 caattgtgga ctcatactta ggggctacaa tgcagtatac tgggttggat gaaagcactg 480  
 gcatggtggt caacagccca acaaataakg caaggcacat agcagggaaa cccattcttg 540  
 ataacaacgc agtgaatctg ttttcttctg ttcttattgc cctcttgctc ccaactgctg 600  
 cttgggggtt ttggcccagg ggggtgaactt tatttcattt ccmcagggtg aaactgaatg 660  
 ggcagttcat gktaaaatcm cttttcatgg aaagagctct atgtaacagc ataataaaaac 720  
 tgsctaccta gcagcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggcg 780  
 gccgctctag aggatccaag cttacgtacg cgtgcatgcgacatcatagc t 831

<210> 629  
 <211> 637  
 <212> DNA  
 <213> Homo sapiens

<400> 629  
 gatatttcctg cttgcatcat ttctagcaca gagctggagg aaatggcgag gtgcaggtgg 60  
 ccgctggccm tgctgttcta catgggagca agacagctgc taggtgaagg ggaatgacca 120  
 ggcagccaca gggaggacat gtggcctcag gaagcctggg tgtgtatcct ggttctgcta 180  
 ggaacacgtg tggggctttg tgtgggtgac tctctggctc cccaagcctc cctttcctac 240  
 tgttatatcc ttaaagtgcc tctgaggcca aagcctttgt ggcaattgtc aaatgagtcc 300  
 atatgcagtg agtaccgtgt tgaggaggga caaggtcaccaagagctgag aatgtttctc 360  
 cgactgatga gacctagata ttgggtacat ggagggtccc ggtccctttg tgattcctgc 420  
 agcctgttgc ctccttgcc ttgacccgcc tcagctcaga aagccaattc cctagattcc 480  
 aaaggccttc ccagaccaat tagcatgtcc tgcagctgtc agctccctgt gcctagcctg 540

|            |            |            |           |            |             |     |
|------------|------------|------------|-----------|------------|-------------|-----|
| gacctcagct | catgtctage | acccagtctc | ccaacccac | acatattcac | aaataaaaaga | 600 |
| aaataacaaa | tgaaaaaaa  | aaaaaaaaa  | aaaaaat   |            |             | 637 |

<210> 630  
 <211> 3337  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |                      |             |            |      |
|-------------|-------------|-------------|----------------------|-------------|------------|------|
| <400> 630   |             |             |                      |             |            |      |
| ggttgatttc  | ccctcaactt  | tccacaggtg  | tcttaaaagctttgctcact | catcccttct  |            | 60   |
| ctgacttagg  | atttgagcat  | ctttctgtta  | tgctgttgcc           | ccactcctat  | tgcaatactc | 120  |
| ctcttcttaa  | gaaagttttt  | ctagactaat  | gtctagatta           | aacttctttt  | ctttgacaat | 180  |
| aatgatgcca  | tgacttggac  | aaaatgcccc  | ttgcctctgg           | gtcctgcttt  | cttcacccag | 240  |
| tgctgcctta  | ttggactcct  | tgtgcctctc  | cttggctggg           | gaaatcagaa  | tacacagtgg | 300  |
| tatcccactt  | ctaagatgcc  | tgatctgaag  | gacagtaaaa           | caactgacct  | ttgccagcat | 360  |
| gtaaaacaca  | tggtttaact  | agtcctccag  | gaacaacamt           | gagcaatcct  | gacctgggac | 420  |
| tactttactc  | ggccatctcc  | tacttgagat  | gctctgttc            | tctctgttca  | aggacacctt | 480  |
| ttctgagcct  | ttcttgaaca  | agagtggagg  | accgataggc           | gattaaactg  | tccttgacac | 540  |
| aacttttagag | cttcwactga  | gaatctagaa  | gagagtagat           | ggaaaaatat  | ttttccctcc | 600  |
| cctccaaatg  | caaggataat  | cttacacgag  | tccaggagga           | aggctcattc  | cacactaagt | 660  |
| gttctgaatc  | aaaaagatga  | acaaaatata  | gtgccattct           | tcaaggrctt  | cacagtctac | 720  |
| aggaaagggw  | tattgtttaa  | caaataactg  | cagaattgga           | aattggagct  | gatgtgctta | 780  |
| gaagtgtttt  | gaacaagggg  | catgactgtg  | actctctctg           | cttttgcaag  | cttcaggaaa | 840  |
| acctttactc  | acagttgaaa  | atacagagc   | tcagggtgaa           | gccctaactt  | cccacagcag | 900  |
| atgggggtcta | tgaggaggaa  | gaagtagacg  | catggaccag           | tcctgttatg  | aagacaagtt | 960  |
| tcatggtgct  | actgtgtctc  | catgagctcc  | tatggcccag           | aagctggcat  | cctgtgagtg | 1020 |
| gacggagctc  | tgctcggtcg  | cccaggctgg  | agtgcagtta           | aatgaaaaaa  | cgtaccaga  | 1080 |
| cagaggttct  | aaaacagcac  | caaaatatta  | atttaatgag           | tggagawtag  | ttttctttat | 1140 |
| caacactaca  | tatttttttt  | cttttttttt  | tttttttttt           | ttttgagacg  | tagtctcact | 1200 |
| ctgtcgtctc  | ggctggagtg  | cagtggcaca  | atctcggctc           | actgcaagct  | ccgcctcccg | 1260 |
| ggttcacacc  | attctcctgc  | ctagcctcc   | caagtagctg           | ggactacagg  | tgcccaccac | 1320 |
| cacgcccagc  | taatgttctg  | tatttttagt  | agagatgggg           | tttcaactgtg | ttatctagga | 1380 |
| tggtcgcgac  | tcctgacctc  | gtgatctgcc  | cgctcggcct           | cccaaagtgc  | tggaattaca | 1440 |
| ggtgtgagcc  | acattgcccg  | gcccattttat | gktgktttta           | tccatctaac  | cagccacat  | 1500 |
| atattgtgtg  | cttcccactg  | accacaacac  | attctgagaa           | cttgccacac  | atgctctact | 1560 |
| ttcgtcttca  | catcaacaat  | gtgaatctta  | agctgtgctg           | aattttgtcc  | aaaatgactc | 1620 |
| agataggaaa  | aggcagaata  | aggaatacat  | tccagttgtc           | tccaaagtcc  | acccttttct | 1680 |
| aagtgtcaca  | ttatatattg  | cttgccactg  | gcacacagct           | taaataaaaag | tcaaaccatg | 1740 |
| agaagccata  | gaaagtaata  | tcagagtaca  | ggtgagaagt           | tgcaattaca  | taaatgatca | 1800 |
| ttcaagactt  | cctggagaag  | gcacgagttg  | tcctttggag           | tgaccaagac  | tcacttccaa | 1860 |
| gtagaaaagct | cagtaatttt  | gcttgagaga  | tagcatggaa           | agggccag    | cttcagagtg | 1920 |
| tggtcgactt  | gaatttgagc  | tctatcttca  | tctatttcta           | cccatgtgcc  | tctggacatc | 1980 |
| ttacttaacc  | tctctgaatc  | ttcatcttgt  | catttggaga           | aacctgattg  | acttgttgta | 2040 |
| aagattaaag  | aaatcatgaa  | acacatctag  | tccaaaactg           | atactatagt  | agacatttaa | 2100 |
| caagtgatgt  | ttgatttaat  | tcaagtctct  | aggttatagt           | aagacaatgg  | caaaatatta | 2160 |
| attaatcagc  | ttctccagtt  | tgtgcgtttg  | agaagggtaa           | gccaaaggag  | gactttgttt | 2220 |
| tcatatctca  | tattgcatcg  | tttgtcataa  | aaattacaca           | tttatacaag  | cgcgcacaca | 2280 |
| cacacacaca  | cacaggcaca  | aacactcaga  | catgagccac           | aatcacaat   | gaaggagtgc | 2340 |
| ttagagtgtc  | taggcaccat  | aataaaacttt | cacataaagt           | acagcagtag  | cattcttaat | 2400 |
| taaaatctct  | aaagtactct  | tgttgttgac  | aatatcrcca           | cccaaagcca  | tatttacctt | 2460 |
| gttaattatt  | caagttgcag  | tgaataagaa  | acaatgcccc           | ggcttcccat  | aaaatttcca | 2520 |
| aaaattaaac  | cagggaaatg  | ggcaataaat  | gtcatttgaa           | atggaactga  | tgccagttaa | 2580 |
| ttacaagaca  | actgtaaaat  | aatggggcat  | gaggttcttc           | aacaatgcct  | aattagtaac | 2640 |
| tatatgggca  | tttccttgga  | aaaaatggca  | attacacggt           | gcaaacactt  | agcagtcatc | 2700 |
| atcaaaggcc  | cttaaccaat  | attagctaata | taatcttcc            | tacaacactc  | cagcaggagg | 2760 |
| cagcacaagt  | cctcattgag  | ggagggagaa  | kggaagccaa           | aagatgaaat  | ggaaaatcct | 2820 |
| cttctgctca  | gcactctgtaa | agaacaattt  | gacactcgca           | gcctagaagc  | actcaggagg | 2880 |

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| gattcccagr | ccaagagaga | gagttttcct  | taatgataag | gttaaatgtgg | tgaacaccta  | 2940 |
| gcttctctct | gatttgctgc | catggctcac  | atccttgctg | tccycgagaa  | ctccccacac  | 3000 |
| caaattgctg | ttgcaggcac | acatgcactc  | ttgcgcttat | caaccctttt  | ctctttttct  | 3060 |
| cagcaagaag | gcttttgacc | tcaaataatat | aaaaccaatg | gggggagaag  | gaagctatgc  | 3120 |
| ctctttccac | aaagccaagc | ttgttatatt  | atacatgat  | ccacagcttt  | tgattttcaac | 3180 |
| ttaatgtatg | agatctggaa | ttatttcaga  | agtatgattg | attttgatca  | ggtgaagata  | 3240 |
| ttttaaaaga | agtgaattat | ctcttatgtt  | acttaattta | atccacatta  | aagatttatg  | 3300 |
| acaaaaaaaa | aaaaaaaaaa | aaaaaaaaagg | cggccgc    |             |             | 337  |

<210> 631  
 <211> 2733  
 <212> DNA  
 <213> Homo sapiens

|            |      |
|------------|------|
| <400> 631  |      |
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| ctcagtcgga | 120  |
| tagtcatgta | 180  |
| gctttggcga | 240  |
| ggaagcaact | 300  |
| tctgtggact | 360  |
| tagaggaaga | 420  |
| tcttaccagc | 480  |
| agaagacaca | 540  |
| aagacctgaa | 600  |
| cccgcccgga | 660  |
| ctgagcaggg | 720  |
| caccggccag | 780  |
| acgtcttcct | 840  |
| agcctgtgtc | 900  |
| tggacaccat | 960  |
| cgaagaagtt | 1020 |
| tcctgggggg | 1080 |
| ctgaggattt | 1140 |
| cggatgtgaa | 1200 |
| tggccgaggt | 1260 |
| agaagtttca | 1320 |
| aggatgggct | 1380 |
| tattcacgct | 1440 |
| agggcgggaa | 1500 |
| gaacgcacct | 1560 |
| acggccgctt | 1620 |
| tgggcgtcta | 1680 |
| cttgttacca | 1740 |
| acctttaccc | 1800 |
| tgctgcgggc | 1860 |
| aataccagga | 1920 |
| cgggtggcta | 1980 |
| agatggagag | 2040 |
| acccaaacct | 2100 |
| tctggacccc | 2160 |
| ccttgctggg | 2220 |
| ccaggctctg | 2280 |
| gacaagttag | 2340 |
| cctgcttcct | 2400 |
| tgtggggcga | 2460 |
| agcccagggt | 2520 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tggaggggct | gccgtgactc | cagaggcctg | aggetccagg | gctggctctg | gtgtttacaa | 2580 |
| gctggactca | gggatcctcc | tggccgcccc | gcagggggct | tggagggctg | gacggcaagt | 2640 |
| ccgtctagct | cacgggcccc | tccagtggaa | tgggtctttt | cggtggagat | aaaagttagt | 2700 |
| ttgctctaaa | aaaaaaaaaa | aaaaaaaaaa | aaa        |            |            | 2733 |

<210> 632  
 <211> 1547  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| <400> 632   |            |             |             |            |            |      |
| ggcagcagcg  | gctgcggggc | cgagggtgagg | ggcggagggt  | tcccagcagg | atgccccggc | 60   |
| tctgcaggaa  | gctgaagtga | gaggccccga  | gagggcccag  | cccggcccgg | gcaggatgac | 120  |
| caaggcccgg  | ctgttcgggc | tgtggtgggt  | gctgggggtcg | gtgttcacga | tcctgctgat | 180  |
| catcgtgtac  | tgggacagcg | cagcgccggc  | cacttctact  | tgcacacgtc | cttctctagg | 240  |
| ccgcacacgg  | ggccgcccgt | gccccgcgcc  | gggcccggaca | ggacagggag | ctcacggccg | 300  |
| actccgatgt  | cgacgagttt | ctggacaatt  | tctcatgctg  | gcgtgaagca | gagtgcacct | 360  |
| cccagaaagg  | agacggagca | gcccgcctgc  | ccggggggagc | atggaggaga | gcgtgagagg | 420  |
| ctacgactgg  | tccccgcgcg | acgcccggcg  | cagcccagac  | cagggccggc | agcaggcgga | 480  |
| gcggaggaac  | gtgctgcggg | gcttctgcgc  | caactccagc  | ctggccttcc | ccaccaagga | 540  |
| gcgcgcattc  | gacgacatcc | ccaactcgga  | gctgagccac  | ctgatcgtgg | acgaccggca | 600  |
| cggggccatc  | tactgctacg | tgcaccaagg  | ggcctgcacc  | aactggaagc | gcgtgatgat | 660  |
| cgtgctgagc  | ggaagcctgc | tgcaccgcgg  | tgcgccctac  | cgcgacccgc | tgcgcatccc | 720  |
| gcgcgagcac  | gtgcacaacg | ccagcgcgca  | cctgaccttc  | aacaagttct | ggcgccgcta | 780  |
| cgggaagctc  | tcccgccacc | tcatgaagg   | caagctcaag  | aagtacacca | agttcctctt | 840  |
| cgtgcgcgac  | cccttcgtgc | gctgatctc   | cgcttccgc   | agcaagttcg | agctggagaa | 900  |
| cgaggagttc  | taccgcaagt | tgcgcgtg    | catgctgcgg  | gtgtacgcca | accacaccag | 960  |
| cctgcccgcc  | ctggcgcgcg | aggecttccg  | cgctggcctc  | aagggtgcct | tcgccaactt | 1020 |
| catccagtac  | ctgctggacc | cgcacacgga  | gaagctggcg  | cccttcaacg | agcatggcg  | 1080 |
| gcagggtgtac | cgctcttgcc | acccgtgcca  | gatcgactac  | gattcctggg | gaagctggag | 1140 |
| actctggacg  | aggacgccgc | gcagctgctg  | cagctactcc  | aggtggaccg | gcagtccgct | 1200 |
| tccccccgag  | ctaccggaac | aggaccgcca  | gcagctggga  | ggaggactgg | ttcgccaaga | 1260 |
| tccccctggc  | ctggaggcag | cagctgtata  | aactctacga  | ggccgacttt | gttctcttcg | 1320 |
| gctaccccaa  | gcccgaatac | ctcctccgag  | actgaaagct  | ttcgcgttgc | tttttctcgc | 1380 |
| gtgctggaa   | ctgacgcac  | gcgcactcca  | gtttttttat  | gacctacgat | tttgcaatct | 1440 |
| gggttctctg  | ttcactccac | tgcctctatc  | cattgagtag  | tgtatcgaa  | ttgtttttta | 1500 |
| agattaatat  | atttcaggta | tttaatacga  | aaaaaaaaaa  | aaaaaaa    |            | 1547 |

<210> 633  
 <211> 1380  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 633  |            |             |            |             |            |     |
| cagacccgcg | gggcaaacgg | actggggcca  | agagccggga | gcgcggggcg  | aaaggcacca | 60  |
| gggcccgcgc | agggcgccgc | gcacacggcc  | ttgggggttc | tgcgggcctt  | cgggtgcgcg | 120 |
| tctcgccctc | agccatgggg | tccgcagcgt  | tggagatcct | gggcctggtg  | ctgtgcctgg | 180 |
| tgggtctggg | gggtctgac  | ctggcggtgc  | ggctgcccat | gtggcaggtg  | accgccttcc | 240 |
| tggaccacaa | catcgtgacg | gcgcagacca  | cctggaagg  | gctgtggag   | tcgtgcgtgg | 300 |
| tgcagagcac | gggcacatgc | agtgc aaagt | gtacgactcg | gtgctggctc  | tgagcaccga | 360 |
| ggtgcaggcg | gcgcggggcg | tcaccgtgag  | cgccgtgctg | ctggcgttcg  | ttgcgctctt | 420 |
| cgtgaccctg | gcgggcgcgc | agtgcaccac  | ctgcgtggcc | ccggggcccgg | ccaaggcgcg | 480 |
| tgtggccctc | acgggaggcg | tgctctacct  | gttttgccgg | ctgctggcgc  | tcgtgccact | 540 |
| ctgctggttc | gccaaacatt | tcgtccgcga  | gttttacgac | ccgtctgtgc  | ccgtgtcgca | 600 |
| gaagtacgag | ctgggcgcac | gctgtacatc  | ggctgggcgg | ccaccgcgct  | gctcatggta | 660 |
| ggcgctgccc | tcttgctgc  | cggcgccctg  | gtctgcaccg | gcgtcccga   | cctcagcttc | 720 |
| cccgtgaagt | actcagcgcc | gcggcgggcc  | acggccaccg | gcgactacga  | caagaagaac | 780 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| tacgtctgag | ggcgctgggc | acggccgggc | cctctctgcc | agccacgcct | gcgaggcggt  | 840  |
| ggataagcct | ggggagcccc | gcatggaccg | cggcttccgc | cgggtagcgc | ggcgcgccagg | 900  |
| ctcctcggaa | cgtccggctc | tgcgccccga | cgcggctcct | ggatccgctc | ctgcctgcgc  | 960  |
| ccgcagctga | ccttctcctg | ccactagccc | ggccctgccc | ttaacagacg | gaatgaagtt  | 1020 |
| tccttttctg | tgcgcggcgc | tgtttccata | ggcagagcgg | gtgtcagact | gaggatttcg  | 1080 |
| cttccctcc  | aagacgctgg | gggtcttggc | tgctgccta  | cttcccagag | gctcctgctg  | 1140 |
| acttcggagg | ggcggatgca | gagcccaggg | ccccaccgg  | aagatgtgta | cacctgggtct | 1200 |
| ttactccatc | ggcagggccc | gagcccaggg | accagtgact | tggcctggac | ctcccgggtct | 1260 |
| cactccagca | tctccccagg | caaggcttgt | gggcaccgga | gcttgagaga | gggcgggagt  | 1320 |
| gggaaggcta | agaatctgct | tagtaaattg | tttgaactct | caaaaaaaaa | aaaaaaaaaa  | 1380 |

<210> 634  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (25)..(25)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (74)..(74)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (486)..(486)  
 <223> n equals a,t,g, or c

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 634  |             |            |            |            |            |     |
| ccaggtaccg | gcccggaaat  | tcttnggtcg | acccacgcgt | ccggcatgac | gaacttctcc | 60  |
| cttggtccca | gcnantcct   | agaatatgtt | gcctcttctc | aaaaataacg | taccacaaag | 120 |
| cctctggtga | cggtaggagca | aaggaataga | tggtgaatgt | ctcatacca  | cttcggatcc | 180 |
| agaacaggcc | taggagagac  | tcaggtggga | tctgctgctg | aggaaaggag | ttggggctga | 240 |
| agttggagga | agagggcagc  | tctaaaccac | ctattcctgg | ctctaggcct | ctcaggccag | 300 |
| acagcccca  | cccgtttctg  | cagatgccc  | catcatggtc | ctgaggggat | gggggctggc | 360 |
| ctggagcytt | tcccccgtag  | tgtgtggcta | tagcggggac | atgaaggggg | tgtgttgggg | 420 |
| acgtagtgc  | cactcccttc  | taccgtcaga | ratcctgctt | ccccctgccc | cctgcctty  | 480 |
| ctcggntgtc | cttcataacc  | ccccaccac  | tccccacctg | ccatctcctg | tgcttgtgcg | 540 |
| gatccaggaa | gcacctacct  | gggcacagag | atcatcgctc | ggtgcctcgc | ccctacacaa | 600 |
| gggcgattaa |             |            |            |            |            | 610 |

<210> 635  
 <211> 659  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (616)..(616)



<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (620)..(620)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (631)..(631)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (644)..(644)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (649)..(649)

<223> n equals a,t,g, or c

<400> 635

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ctacgagttt | tttttttttt | tttttctgtc  | agcctcataa | acatttttaa | tgacccacat | 60  |
| agcatgacat | atacagtatc | atgttttccc  | taagagaaat | tactttacat | tgactttaat | 120 |
| gacttgccct | cacagcttta | gattttcactt | gctaaagtat | tttgattgtg | catttaattt | 180 |
| aaaaagaaac | ctctaaacat | tttttttagtt | gcaaaaaatt | ccaactttac | cagggagaag | 240 |
| aacatttttg | ggtgttcaac | tgtactggga  | atgtttttt  | tttaagctgg | ttagtgaata | 300 |
| catgggtggt | cattttatta | cctcatatac  | ttcatatggt | ttaaataata | atacatttaa | 360 |
| aaatatgctt | tcttttattc | agattttctga | tgctagagga | atatgttcag | ttagtttact | 420 |
| tgtcctgaaa | tttaaacagt | aaccatttaa  | attacgtgag | ctgtaaagag | attggcattt | 480 |
| ttctgtgagt | tgttccagac | actaggccca  | gtgctgttaa | agatgagccc | cgcattctct | 540 |
| ccaaatgaca | ccaggcccat | cattgtgttc  | ctaggctcaa | gctcttctcc | gctggcatga | 600 |
| tgctcatcag | gtctanagcn | caaaaggaga  | nttcggtggg | tagnggggng | gatagattt  | 659 |

<210> 636

<211> 189

<212> DNA

<213> Homo sapiens

<400> 636

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gaaagaatgg  | ctcctctgtt | tataacacac | ccaacaggaa | tctgggggtca | atgtgatgag  | 60  |
| aggcacaaaag | cttgtggcct | ccctacaaac | aaatgcctac | atgtgaagag  | gaaaaaaaaat | 120 |
| tatagaatct  | gggtagtggg | tgtatgggtg | ttcactgtat | aattctttca  | acaatctcct  | 180 |
| atgtttgaa   |            |            |            |             |             | 189 |

<210> 637

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (358)..(358)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (523)..(523)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (552)..(552)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (589)..(589)  
 <223> n equals a,t,g, or c

<400> 637  
 ttttatatat atatatatat atatatatataa aatgccagaa agcagttttc ttgacatat 60  
 agaaaagaat gtgcttggga attcaagctc tatagcaaca agacagagaa gattgtatta 120  
 gtaagattgt atatcttcca gtgtcacctg tatatcccct aaactcctca cctatatcac 180  
 aaaaacctgc caaggcagaa tacattccct tgggaaagga gctttggcgg gcaagcaggc 240  
 atcgggtccc atctgacacc agcgtgatcg ccacaggagc catctaggaa aggggaatgg 300  
 aaactgagat gctggcactt tgggccctgc caatgagcta aagcagtgta taattaanga 360  
 attgcacagg cttccttccc caggacaaag cagcgcacag tcttcttgga ttactgtcct 420  
 cttacagcaa taattacctg tggataatag attatattat tggaagggca caacgcttg 480  
 ctgccagcca cgtcttcttg gtgggctgcc acttctgctg canaactgat gagcatcatg 540  
 ccaccggaga anacttgagc ctaggacaac atgatgggccc tgggtgtcant tggagagaat 600  
 gcgggctcat ctttacagcc ttgggcctaa tggctgc 637

<210> 638  
 <211> 1830  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (67)..(67)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (97)..(97)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (211)..(211)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1813)..(1813)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1830)..(1830)  
 <223> n equals a,t,g, or c

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<400> 638
gcgaccgcgc ccttcagcta gctcgctcgc tcgctctgct tccctgctgc cggctgcgca      60
tggcttnggc gttggcgggc ctggcgggcg tcgagcngcc tgcgsagccg gtaccagcag      120
ttgcagaatg aagaagagtc tggagaacct gaacaggctg caggatgatgc tcctccacct      180
tacagcagca tttctgcaga gagcgcacat nattttgact acaaggatga gtctggggtt      240
ccaaagcccc catcttataa tgtagctaca aactgcccc gttatgatga agcggagagg      300
accaagctg aagctactat ccctttgggt cctgggagag atgaggattt tgtgggtcgg      360
gatgattttg atgatgctga ccagctgagg ataggaaatg atgggatttt catgttaact      420
tttttcatgg catctctctt taactggatt ggggtttttc tgtctttttg cctgaccact      480
tcagctgcag gaaggtatgg ggccatttca ggatttggct tctctctaata taaatggatc      540
ctgattgtca ggttttccac ctatttccct ggatattttg atggtcagta ctggctctgg      600
tgggtgttcc ttgttttagg ctttctcctg tttctcagag gatttatcaa ttatgcaaaa      660
gttcggaaga tgcagaaa tttctcmaat ctccccagga ccagagtctt ctttatttat      720
taaaagctgt tcttggcaaa ggcccttcctg catttatgaa ttctctctca agaagcaaga      780
gaacacctgc aggaagtga tcaagatgca gaacacagag gaataatcac ctgctttaaa      840
aaaataaagt actgttgaaa agatcatttc tctctatttg ttcttaggtg taaaattta      900
atagttaatg cagaattctg taatcattga atcattagtg gttaatgttt gaaaaagctc      960
ttgcaatcaa gtctgtgatg tattaataat gccttatata ttgtttgtag tcattttaag      1020
tagcatgagc catgtccctg tagtcggtag ggggcagtct tgcctttattc atcctccatc      1080
tcaaaaatgaa cttggaatta aatattgtaa gatattgata atgctggcca ttttaaaggg      1140
gttttctcaa aagttaaact tttgttatga ctgtgttttt gcacataatc catatttgct      1200
gttcaagtta atctagaaat ttattcaatt ctgtatgaac acctggaagc aaaatcatag      1260
tgcaaaaata catttaaggt gtggtcaaaa ataagtcttt aattggtaaa tataagcat      1320
taatttttta tagcctgtat tcacaattct gcggtacctt attgtacctt agggattcta      1380
aagggtgtgt cactgtataa aacagaaagc actaggatac aaatgaagct taattactaa      1440
aatgtaattc ttgacactct ttctataaatt agcgtttctt acccccaccc ccacccccac      1500
cccccttatt ttcttttgt ctctgtgtga ttaggccaaa gtctgggagt aaggagagga      1560
ttaggtactt aggagcaaaag aaagaagttag cttggaactt ttgagatgat ccctaacata      1620
ctgtactact tgcctttaca atgtgttagc agaaaccagt ggggtataat gtagaatgat      1680
gtgctttctg cccaagtggg aattcatctt ggtttgctat gttaaaatg taaatacaac      1740
agaacattaa taaatatctc ttgtgtagca ctttttaaaa aaaaaaaaaa aaaaaaaaaa      1800
aaaaaaaaaa aancccgagg gggggcccn      1830

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<210> 639
<211> 1025
<212> DNA
<213> Homo sapiens

```

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<400> 639
cctggcccac attgcttcat tggcctggcc atgcgcctgt actatggcag ccgctagtcc      60
ctgacaactt ccacctgat tccggacct gtagattggg cggcaccacc agatccccct      120
cccaggcctt cctccctctc ccacagcag cctgtataca agtgccctgt gagaaaagct      180
ggagaagtga gggcagccag gttattctct ggaggttggg ggatgaggg gtaccctagg      240
agatgtgaag tgtgggtttg gtttaaggaaa tgcttacct ccccccaccc caaccaagtt      300
cttcagact aaagaattaa ggtaacatca atacctaggc ctgagaaata accccatcct      360
tgttgggcag ctccctgctt tgtcctgcat gaacagagtt gatgaaagtg ggggtgtggg      420
aacaagtggc tttccttgcc tactttagtc acccagcaga gccactggag ctggctagtc      480
cagcccagcc atggtgcatg actcttccat aaggatcct cacccttcca ctttcatgca      540
agaaggccca gttgccacag attatacaac cattacccaa accactctga cagtctcctc      600
cagttccagc aatgcctaga gacatgctcc ctgccctctccacagtgtctg ctccccacac      660
ctagcctttg ttctggaaac cccagagagg gctgggcttg actcatctca gggaatgtag      720
cccctggggc ctggcttaag ccgacactcc tgacctctct gttcaccctg agggctgtct      780
tgaagccgcg taccactctt gaggtcctta ggaggtacca tgcttcccac tctggggcct      840
gcccctgcct agcagtctcc cagctcccaa cagcctgggg aagctctgca cagagtgacc      900
tgagaccagg tacaggaaac ctgtagctca atcagtgtct ctttaactgc ataagcaata      960
agatcttaat aaagtcttct aggctgtagg gtggttccca caaccacagc caaaaaaaaa      1020
aaaaa      1025

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<210> 640  
 <211> 2454  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (2317)..(2317)  
 <223> n equals a,t,g, or c

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<400> 640
ggtcgaccca cgcgtccgct tccatgtcaa atgtatgact gttatttctt cttctggaag      60
agcctacctg gacgtagaca ttactctgtc ctcagaagct ttccataatt acatgaatgc      120
tgccatgggtg cacatcaaca gggccctgaa actcattatt cgtctctttc tggtagaaga      180
tctggttgac tccttgaagc tggctgtctt catgtggctg atgacctatg ttgggtgctgt      240
ttttaacgga atcacccttc taattcttgc tgaactgctc attttcagtg tcccgattgt      300
ctatgagaag tacaagaccc agattgatca ctatgttggc atcgcccagag atcagaccaa      360
gtcaattgtt gaaaagatcc aagcaaaact ccctggaatc gccaaaaaaa aggcagaata      420
agtacatgga aaccagaaat gcaacagtta ctaaaacacc atttaatagt tataacgctcg      480
ttacttgtac tatgaaggaa aatactcagt gtcagcttga gcctgcattc caagcttttt      540
ttttaatttg gtgttttctc ccataccttc cctttaaccc tcagtatcaa gcacaaaaat      600
tgatggactg ataaaagaac tatcttagaa ctcagaagaa gaaagaatca aattcatagg      660
ataagtcaat accttaatgg tggtagagcc tttacctgta gcttgaaagg ggaaagattg      720
gaggtgaagag agaaaatgaa agaacacctc tgggtccttc tgtccagttt tcagcactag      780
tcttactcag ctatccatta tagttttgccc cttaagaagt catgattaac ttatgaaaaa      840
attatttggg taccaggagt tgataccttc cttgggtttt ttttgcagcc ctcaatcct      900
atcttcctgc ccacacaatg gagcagctac ccttgatact ccttttcttt aatgatttaa      960
ctatcaactt gataaataac ttataggtga tagtgataat tcctgattcc aagaatgcca     1020
tctgataaaa aagaatagaa atggaaagtg ggactgagag ggagtcagca ggcattgctgc     1080
ggtggcggtc actccctctg ccactatccc cagggaagga aaggctccgc catttgggaa     1140
agtggtttct acgtcactgg acaccgggtc tgagcattag tttgagaact cgttcccgaa     1200
tgtgttttcc tccctctccc ctgcccacct caagtttaat aaataagggt gtacttttct     1260
tactataaaa taaatgtctg taactgctgt gcactgctgt aaacttgtagagaaaaaa     1320
taacctgcat gtgggctcct cagttattga gtttttgtag tctatctca gctctggggg     1380
gaacattctc aagaggtgaa atacagaaag ccttttttcc ttgatcttt cccgagattc     1440
aaatctccga ttcccatttg ggggcaagtt tttttcttca ccttcaatat gagaattcag     1500
cgaacttgaa agaaaaatca tctgtgagtt ccttcagggt ctcactcata gtcattgatcc     1560
ttcagaggga atatgcactg gcgagtttaa agtaagggt atgatatttg atggtcccaa     1620
agtacggcag ctgcaaaaag tagtggaagg aaattgtcta cgtgtcttgg aaaaattagt     1680
taggaatttg gatgggtaaa aggtaccctt gccttactcc atctatttt cttagcccc     1740
tttgagtgtt ttaactggtt tcatgtccta gtaggaagtg cattctccat cctcatcctc     1800
tgccctccca ggaagtcagt gattgtcttt ttgggcttcc cctccaaagg accttctgca     1860
gtggaagtgc cacatccagt tcttttcttt tgttgctgct gtgttttagat aattgaagag     1920
atctttgtgc cacacaggat tttttttttt tttaagaaaa acctatagat gaaaaattac     1980
taatgaaact gtgtgtacgt gtctgtgcgt gcaacataaa aatacagtag cacctaagga     2040
gcttgaatct tggttcctgt aaaattttcaa attgatgtgg tattaataaa aaaaaaaaaa     2100
acacaaaaaa aaaaaaaaaa agggcggccg ctctagaga tccaagctta cgtacgcgtg     2160
catgcgacgt catagctctt ctatagtgtc acctaaattc aattcactgg ccgtcgtttt     2220
acaacgctcg tactgggaaa accctggcgt taccacaact aatcgccctg cagcacatcc     2280
ccctttcgcc agctggcgta atagcgaaga ggcccgcnacc gatcgscctt cccaacagtt     2340
gcgcagcctg aatggcraat gggacgcgcc ctgtageggc gcattaagcg cggcggtgtg     2400
ggtggttacc cgcagcgtga ccgttacact tgccagtggc cctagcggcc cgct      2454

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<210> 641  
 <211> 1775  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (820)..(820)

<223> n equals a,t,g, or c

<400> 641

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gcggcgcggg tgggggttgt gcgttttacg caggctgtgg cagcgacgcg gtccccagcc      60
tgggtaaaga tggcccatg gccccgaag ggccagtagcc cagctgtgct ctggggcctc      120
agcctcttcc tcaacctccc aggacctatc tggctccagc cctctccacc tccccagtct      180
tctccccgcg ctacagccca tccgtgtcat acctgccggg gactgggtga cagctttaac      240
aagggccttg agagaaccat ccgggacaac tttggaggtg gaaacactgc ctgggaggaa      300
gagaatttgt ccaatacaaa agacagttag accgcctgg tagaggtgct ggagggtgtg      360
tgcagcaagt cagacttcga gtgccaccgc ctgctggagc tgagttagga gctgggtggag      420
agctggttgt ttcacaagca gcaggaggcc ccggacctct tccagtggct gtgctcagat      480
tccctgaagc tctgctgccc cgcaggcacc ttcgggccct cctgccttcc ctgtcctggg      540
ggaacagaga ggccctgcgg tggctacggg cagtgtgaag gagaagggac acgagggggc      600
agcgggcact gtgactgcca agccggctac gggggtgagg cctgtggcca gtgtggcctt      660
ggctactttg aggcagaacg caacgccagc catctggtat gttcggcttg ttttgcccc      720
tgtgcccgat gctcaggacc tgaggaatca aactgtttgc aatgcaagaa gggctgggcc      780
ctgcatcacc tcaagtgtgt agadtgtgcc aaggcctgcn taggctgcat gggggcaggg      840
ccaggctcgt gtaagaagtg tagccctggc tatcagcagg tgggctccaa gtgtctcgat      900
gtggatgagt gtgagacaga ggtgtgtccg ggagagaaca agcagtgtga aaacaccgag      960
ggcggttatc gctgcatctg tgccgagggc tacaagcaga tggaaggcat ctgttgaag     1020
gagcagatcc cagagtcagc aggcctcttc tcagagatga cagaagacga gttggtggtg     1080
ctgcagcaga tgttcttttg catcatcacc tgtgcactgg ccacgctggc tgctaagggc     1140
gacttggtgt tcaccgccat cttcattggg gctgtggcgg ccatgactgg ctactggttg     1200
tcagagcgca gtgaccgtg gctggagggc ttcatcaagg gcagataatc gcggccacca     1260
cctgtaggac ctctctccac ccacgctgcc cccagagctt gggctgccct cctgctggac     1320
actcaggaca gcttggttta tttttgagag tggggtgaag acccctacct gccttacaga     1380
gcagcccagg taccagggcc cgggcagaca agggccctgg ggtaaaaagtagccctgaag     1440
gtggatacca tgagctcttc acctggcggg gactggcagg cttcacaatg tgtgaatttc     1500
aaaagttttt ccttaatggt ggctgctaga gctttggccc ctgcttagga ttaggtggtc     1560
ctcacagggg tggggccatc acagctccct cctgccagct gcatgctgcc agttcctggt     1620
ctgtgttcac cacatcccca caccctattg ccacttattt attcatctca ggaaataaag     1680
aaaggtcttg gaaagttaaa aaaaaaaaaa aaaaaaaaaa aaaaaactcg agggggggcc     1740
cgtacccaat cgccctatga tgtagtcgta ttaca                                1775
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<210> 642

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 642

```
gcggcgcggg tgggggttgt gcgttttacg caggctgtgg cagcgacgcg gtccccagcc      60
tgggtaaaga tggcccatg gccccgaag ggccagtagcc agctgtgctc tggggcctca     120
gcctcttctc caacctccca ggacctatct ggcctccagc ctctccacct cccagctctt     180
ctcccccgcc tcagcccatc ccgtgtcata cctgccgggg actggttgac agctttaaca     240
agggcctgga gagaaccatc cgggacaact ttggaggttg aaacactgcc tgggaggaaag     300
agaattttgt caaatacaaa gacagttaga cccgcctggt agaggtgctg gaggggtgtg     360
gcagcaagtc agacttcgag tgccaccgcc tgcctggagct gatggaggag ctgggtggaga     420
gctggtggtt tcacaagcag caggaggccc cggacctctt ccagtggctg tgctcagatt     480
ccctgaagct ctgctgcccc gcaggcacct tcgggccctc ctgccttccc tgtcctgggg     540
gaacagagag gccctgcggg ggctacgggc agtgtgaagg agaagggaca cgagggggca     600
gcgggcactg tgactgcaa gccggctacg ggggtgaggc ctgtggccag tgtggccttg     660
gctactttga ggcagaacgc aacgccagcc atctggtatg ttcggcttgt tttggccctt     720
```

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| gtgccccgatg | ctcaggacct | gaggaatcaa | actgttttgc | atgcaagaag | ggctggggccc | 780  |
| tgcatacacct | caagtgtgta | gacattgatg | agtgtggac  | agagggagcc | aactgtggag  | 840  |
| ctgaccaatt  | ctgctgaac  | actgagggt  | cctatgagt  | ccgagactgt | gccaaggcct  | 900  |
| gcctaggctg  | catgggggca | gggccaggtc | gctgtaagaa | gtgtagccct | ggctatcagc  | 960  |
| aggtgggctc  | caagtgtctc | gatgtggatg | agtgtgagac | agaggtgtgt | ccgggagaga  | 1020 |
| acaagcagtg  | tgaaaacacc | gagggcggtt | atcgctgcat | ctgtgccgag | ggctacaagc  | 1080 |
| agatggaagg  | catctgtgtg | aaggagcaga | tcccaggtgc | attccccatc | ttaactgatt  | 1140 |
| taacccctga  | aacaacccga | cgctggaagt | tgggttctca | tccccactct | acatatgtaa  | 1200 |
| aatgaagat   | gcagagagat | gaagctactt | tccagggct  | atatggcaag | caagtcgcaa  | 1260 |
| agctgggatc  | ccaatccaga | cagtctgacc | gtggaacgag | actcatacac | gtaataaatg  | 1320 |
| ctctgcccc   | aacttgtcca | ccacaaaaaa | aaaaaaaaaa | aaaaaaaaaa | ggcggccgc   | 1379 |

<210> 643  
 <211> 1508  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| <400> 643   |             |            |             |            |            |      |
| ggcacagaga  | tagagcggca  | acctcggaag | tgcggacggg  | tgggcctata | tagatgttga | 60   |
| ggtgcggagg  | ccgtgggctt  | ttgttgggcc | tggctgtagc  | cgcagcagcg | gtaatggcag | 120  |
| cacggcttat  | gggctggtgg  | gggtccccgc | ctggctttcg  | ccttttcata | ccggaggagc | 180  |
| tgtctcgcta  | ccgcggcggc  | ccaggggacc | gggcctgta   | cttggcggtt | ctcggccgtg | 240  |
| tctacgatgt  | gtcctccggc  | cggagcacta | cgagcctggg  | tccactata  | gcggcttcgc | 300  |
| aggccgagac  | gcatccagag  | ctttcgtgac | cggggactgt  | tctgaagcag | gcctcgtgga | 360  |
| tgacgtatcc  | gacctgtcag  | ccgctgagat | gctgacactt  | cacaattggc | tttcattcta | 420  |
| tgagaagaat  | tatgtgtgtg  | ttgggagggg | gacaggacgg  | ttctacggag | aggatgggct | 480  |
| gcccaccccg  | gcactgaccc  | aggtagaagc | tgcgatcacc  | agaggcttgg | aggccaacaa | 540  |
| actacagctg  | caagagaagc  | agacattccc | gccgtgcaac  | gcggagtggg | gctcagccag | 600  |
| gggcagccgg  | ctctggtgct  | cccagagag  | tggaggtgtg  | agcagagact | ggattggcgt | 660  |
| ccccaggaag  | ctgtataagc  | caggtgctaa | ggagccccgc  | tgcgtgtgtg | tgagaaccac | 720  |
| cggccccctt  | agtggccaga  | tgcgggacaa | ccctccacac  | agaaatcgtg | gggacctgga | 780  |
| ccacccaaa   | ttggcagagt  | acacaggctg | cccaccgcta  | gccatcacat | gctccttcc  | 840  |
| actctaagcc  | gtagcctctt  | ctgttaataa | cacacagaga  | gctctgcca  | gcacctgagt | 900  |
| aggcccttga  | cacttgtgtg  | ccctgggatg | cctcctggcg  | cgaatcagga | gggtctggaa | 960  |
| ggactctggc  | tatatcttgc  | aaatgtggct | catgccctt   | accgtggctc | ggcgttgttg | 1020 |
| tgcttgaggg  | acagccggcc  | acctgccag  | tactggctcag | cttttcaaca | ctattccctt | 1080 |
| tgacctactg  | gccatcttcc  | tcacagccct | cagatatcaa  | cgggcacaaa | taagaccaac | 1140 |
| tcaattttcca | cttgaattta  | caacccaaa  | cctgctgagt  | tgattacagc | tgggccaata | 1200 |
| cagtacgagg  | caataacaaa  | ttagtgtggg | ttgattcttg  | aattggaaaa | gttttgctt  | 1260 |
| gtatggatac  | agcaaatacca | gatgtctctg | aacaaagcaa  | caatttaaag | caacgacatt | 1320 |
| ttctgtcctt  | taagcactta  | aaatcaggtg | tggtgtgttt  | tcaaaggcag | aagtcctgat | 1380 |
| tttgagcaaa  | aggtggcttc  | ccagctctaa | caaggtaact  | ggttagcatg | acattaaagc | 1440 |
| ttgggcaagg  | cttcaactt   | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| aactcgag    |             |            |             |            |            | 1508 |

<210> 644  
 <211> 1412  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1362)..(1362)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature

<222> (1369)..(1369)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1397)..(1397)  
 <223> n equals a,t,g, or c

<400> 644

|            |             |            |             |             |            |            |      |
|------------|-------------|------------|-------------|-------------|------------|------------|------|
| cccttcac   | tct         | gcgttgccag | gaaccctgtc  | agcagaaaact | tctcaagccc | catccttgcc | 60   |
| aggaagctct | gtgaagggtgc | tgctgatgac | ccagattcct  | ccatggteect | cctgtgtctc |            | 120  |
| ctgttggtgc | ccctcctgct  | cagtctcttt | gtactggggc  | tatttctttg  | gtttctgaag |            | 180  |
| agagagagac | aagaagagta  | cattgaagag | aagaagagag  | tggacatttg  | tcgggaaact |            | 240  |
| cctaacatat | gcccccatc   | tggagagaa  | agagtagc    | acacaatccc  | tcacactaat |            | 300  |
| agaacaatcc | taaaggaaga  | tccagcaa   | acggtttact  | ccactgtgga  | aataccgaaa |            | 360  |
| aagatggaaa | atccccactc  | actgctcac  | atgccagaca  | caccaaggct  | atttgcctat |            | 420  |
| gagaatgtta | tctagacagc  | agtgcactcc | cctaagtctc  | tgctcaaaaa  | aaaaacaatt |            | 480  |
| ctcggccaa  | agaaaacaat  | cagaagaatt | cactgatttg  | actagaaaaca | tcaaggaaga |            | 540  |
| atgaagaacg | ttgacttttt  | tccaggataa | attatctctg  | atgcttcttt  | agatttaaga |            | 600  |
| gttcataatt | ccatccactg  | ctgagaaatc | tctcaaaacc  | cagaaggttt  | aatcacttca |            | 660  |
| tcccaaaaa  | gggattgtga  | atgtcagcaa | accataaaaa  | aagtgccttag | aagtattcct |            | 720  |
| ataaaaaat  | gaatgcaagg  | tcacacatat | taatgacagc  | ctgttggtatt | aatgatggct |            | 780  |
| ccaggtcagt | gtctggagtt  | tcattccatc | ccagggtctg  | gatgtcagga  | ttataccaag |            | 840  |
| agtcttgcta | ccaggagggc  | aagaagacca | aaacagacag  | acaagtccag  | cagaagagga |            | 900  |
| tgcacctgac | aaaaatggat  | gtattaattg | gctctataaa  | ctatgtgccc  | agcaytatgc |            | 960  |
| tgagcttaca | ctaattggtc  | agacatgctg | tctgcccctca | tgaaattggc  | tccaaatgaw |            | 1020 |
| tgaactactt | tcattgagcag | ttgtagcagg | cctgaccaca  | gattcccaga  | gggccaggtg |            | 1080 |
| tggatccaca | ggacttgaag  | gtcaaagtct | acaaagatga  | agaatcaggg  | tagctgacca |            | 1140 |
| tgtttgagc  | atactataat  | ggagacacag | aagtgtgcat  | ggcccaagga  | caaggacctc |            | 1200 |
| cagccaggct | tcatttatgc  | acttgtctgc | aaaagaaaag  | tctagggttt  | aaggctgtgc |            | 1260 |
| cagaacccat | cccaataaag  | agaccgagtc | tgaagtcaca  | ttgtaaatct  | gtgtaggag  |            | 1320 |
| acttgagtc  | aggcagtgag  | actggtgggg | cacggggggc  | antgggtant  | gtaaaccttt |            | 1380 |
| taaagatggt | taattcntca  | ttagtgtttt | tt          |             |            |            | 1412 |

<210> 645  
 <211> 1306  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1300)..(1300)  
 <223> n equals a,t,g, or c

<400> 645

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| aattcccggg | tcgacccacg  | cgtccggaat | ttaagggacc  | cacactacct | tcccgaagtt | 60  |
| gaaggcaagc | ggtgattgtt  | tgtagacggc | gctttgtcat  | gggacctgtg | cggttgggaa | 120 |
| tattgctttt | cctttttttt  | gccgtgcacg | aggcttgggc  | tgggatttg  | aaggaggagg | 180 |
| acgatgacac | agaacgcttg  | cccagcaa   | gcgaagtgtg  | taagctgctg | agcacagagc | 240 |
| tacaggcgga | actgagtcgc  | accggtcgat | ctcgagaggt  | gctggagctg | gggcaggtgc | 300 |
| tggatacagg | caagaggaag  | agacacgtgc | cttacagcgt  | ttcagagaca | aggctggaag | 360 |
| aggccttaga | gaattttatg  | gagcggatcc | tggactatag  | tgttcacgct | gagcgcaagg | 420 |
| gctcactgag | atatgccaag  | ggtcagagtc | agacctggc   | aacctgaaa  | ggcctagtgc | 480 |
| agaagggggg | gaagggtgag  | ctggggatcc | ctctggagct  | ttgggatgag | cccagcgtgg | 540 |
| aggtcacata | cctcaagaag  | cagtgtgaga | ccatgttgga  | gargaggag  | gaagaggagg | 600 |
| aagaggaagg | gggagacaag  | atgaccaaga | caggaaagcca | ccccaaactt | gaccgagaag | 660 |
| atctttgacc | cttgccctttg | agcccccagg | aggggaaggg  | atcatggaga | gccctctaaa | 720 |

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| gcctgcactc | tccctgctcc  | acagctttca  | gggtgtgttt  | atgagtgact | ccacccaagc | 780  |
| ttgtagctgt | tctctcccat  | ctaacctcag  | gcaagatcct  | ggtgaaacag | catgacatgg | 840  |
| cttctggggg | ggaggggtgg  | ggtggagggtc | ctgctcctag  | agatgaactc | tatccagccc | 900  |
| cttaattggc | aggtgtatgt  | gctgacagta  | ctgaaagctt  | tcctctttaa | ctgatcccac | 960  |
| ccccacccaa | aagtcagcag  | tggcactgga  | gctgtgggct  | ttggggaagt | cacttagctc | 1020 |
| cttaaggtct | gttttttagac | ccttccaagg  | aagaggccag  | aacggacatt | ctctgcgac  | 1080 |
| tatatacatt | gcctgtatcc  | aggaggctac  | acaccagcaa  | accgtgaagg | agaatgggac | 1140 |
| actgggtcat | ggcctggagt  | tgctgataat  | ttagggtggga | tagatacttg | gtctacttaa | 1200 |
| gctcaatgta | acccagagcc  | caccatatag  | ttttataggt  | gctcaatttt | ctatatcgct | 1260 |
| attaaacttt | tttctttttt  | tctaaaaaaa  | aaaaaaaaan  | actcga     |            | 1306 |

<210> 646  
 <211> 729  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (702)..(702)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (710)..(710)  
 <223> n equals a,t,g, or c

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 646   |            |            |             |            |            |     |
| gctggccctc  | gccttcaagc | tggacgaggt | ggccgcctgtg | gcggtgctcc | tgtgtggctg | 60  |
| ctgtcccggc  | ggcaatctct | ccaatcttat | gtccctgctg  | gttgacggcg | acatgaacct | 120 |
| cagcatcatc  | atgaccatct | cctccacgct | tctggccctc  | gtcttgatgc | ccctgtgcct | 180 |
| gtggatctac  | agctgggctt | ggatcaacac | ccctatcgctg | cagttactac | ccctagggac | 240 |
| cgtgaccctg  | actctctgca | gcactctcat | acctatcggg  | ttgggcgtct | tcattcgcta | 300 |
| caaatacagc  | cgggtggctg | actcatttgt | gaaggtttcc  | ctgtggtctc | tgctagtgc  | 360 |
| tctggtggtc  | cttttcataa | tgaccggcac | tatgttagga  | cctgaactgc | tggcaagtat | 420 |
| ccctgcagct  | gtttatgtga | tagcaatttt | tatgcctttg  | gcaggctacg | cttcaggtta | 480 |
| tggttttagct | actctcttcc | atcttccacc | caactgcaag  | aggactgtat | gtctgaaac  | 540 |
| aggtagtcag  | aatgtgcagc | tctgtacagc | cattctaaaa  | ctggcctttc | accgaattya | 600 |
| taggaagcat  | gkacatgktt | cctttgctgk | atgcactttt  | ycagtctgca | raascgggga | 660 |
| tttttgkttt  | aatctataaa | akgtatggaa | rtgaaatggt  | gnaccaagcn | agaatccttt | 720 |
| tagattaaa   |            |            |             |            |            | 729 |

<210> 647  
 <211> 1180  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>



<221> misc\_feature  
 <222> (14)..(14)  
 <223> n equals a,t,g, or c

<400> 647  
 tccccnggnt gcangattcg gcagaggttt taggaatcct ggtctcagga cctcatggaa 60  
 gaagaggggg agagaggttac aggttggaca tgatgcacac tatggggccc cagcgacgtg 120  
 tctggttgag ctacaggaat atggttctta gccagtttct tggatgatac cagtggcact 180  
 tgtaatggcg tcttcattca gtccatgcag ggcaaaggct tactgataaa cttgagtctg 240  
 ccctcgatag aggggtgtata cctggcctcc ctctgaggct ggtgactcct ccctgctggg 300  
 gccccacagg tgaggcagaa cagctagagg gcctccccgc ctgcccgccttggctggcta 360  
 gctygccctct cctgtgcgta tgggaacacc tagcacgtgc tggatgggct gcctctgact 420  
 cagaggtcatg gccggatttg gcaactcaaa accaccttgc ctacgtgat cagagtttct 480  
 gtggaattct gtttggttaa tcaaattagc tggctctgta attaagggg agacgacctt 540  
 ctctaagatg aacagggttc gccccagtc tctgcctgg agacagttga tgtgtcatgc 600  
 agagctctta ctctccagc aacactcttc agtacataat aagcttaact gataaacaga 660  
 atatttagaa aggtgagact tgggcttacc attgggttta aatcataggg acctagggcg 720  
 agggttcagg gcttctctgg agcagatatt gtcaagttca tggcttagg tagcatgtat 780  
 ctggtcttaa ctctgattgt agcaaaagtt ctgagaggag ctgagccctg ttgtggccca 840  
 ttaaagaaca gggctctcag gccctgcccg ctctctgtcc actgccccct ccccatcccc 900  
 agcccagccg aggggaatccc gtgggttgct tacctaccta taagggtggt tataagctgc 960  
 tgtcctggcc actgcattca aattccaatg tgtacttcat agtgtaaaaaa tttatattat 1020  
 tgtgaggttt tttgtctttt tttttttttt tttttttggt atattgctgt atctacttta 1080  
 acttccagaa ataaacgtta tataggaacc gtcaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1180

<210> 648  
 <211> 941  
 <212> DNA  
 <213> Homo sapiens

<400> 648  
 ggcacgagcc tggacgcagc agccaccgcc gcgtccctct ctccacgagg ctgccggctt 60  
 aggacccccca gctccgacat gtccgctctt gtcgcctgt gtcttctcac catcggtggc 120  
 ctgattctcc ccaccagagg acagacgttg aaagatacca cgtccagttc ttcagcagac 180  
 tcaactatca tggacattca ggtcccgaca cgagccccag atgcagtcta cacagaactc 240  
 cagcccacct ctccaacccc aacctggcct gctgatgaaa caccacaacc ccagaccag 300  
 acccagcaac tgggaaggaac ggatgggcct ctagtgcag atccagagac acacaagagc 360  
 accaaagcag ctcatccac tgatgacacc acgacgtct ctgagagacc atccccagc 420  
 acagacgtcc agacagaccc ccagaccctc aagccatctg gttttcatga ggatgacccc 480  
 ttcttctatg atgaacacac cctccggaaa cgggggctgt tggtcgcagc tgtgctgttc 540  
 atcacaggca tcatcatcct caccagtgc aagtgcaggc agctgtccc gttatgccg 600  
 aatcattgca ggtgagtcca tcagaaacag gagctgacaa cccgctgggc acccgaagac 660  
 caagccccct gccagctcac cgtgcccagc ctctgcac ccctcgaaga gcctggccag 720  
 agagggaaga cacagatgat gaagctggag ccagggtgc cgggtccagt ctctacctc 780  
 ccccaaccct gccgcccct gaaggctacc tggcgcttg gggctgtcc ctcaagttat 840  
 ctctctgtt aagacaaaaa gtaaaagcact gtggtctttg aaaaaaaaaa aaaaaaaaaa 900  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 941

<210> 649  
 <211> 988  
 <212> DNA  
 <213> Homo sapiens

<400> 649  
 ggcacgagcc accgccgct ccctctctcc acgaggctgc cggcttagga cccccagctc 60  
 cgacgtaagt ccctctcgcg cgccacctcc atccgctgcc cctctgcca cgggccgggc 120

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| tcasatgtcg | ccctctggtc  | gcctgtgtct | tctaccatc  | gttggcctga | ttctccccac  | 180 |
| cagaggacag | acgttgaaa   | ataccacgtc | cagttcttca | gcagactcaa | ctatcatgga  | 240 |
| cattcaggtc | ccgacacgag  | ccccagatgc | agtctacaca | gaactccagc | ccacctctcc  | 300 |
| aaccccaacc | tggcctgctg  | atgaaacacc | acaacccag  | acccagaccc | agcaactgga  | 360 |
| aggaacggat | gggcctctag  | tgacagatcc | agagacacac | aagagcacca | aagcagctca  | 420 |
| tcccactgat | gacaccacga  | cgctctctga | gagaccatcc | ccaagcacag | acgtccagac  | 480 |
| agacccccag | accctcaagc  | catctggttt | tcatgaggat | gaccccttct | tctatgatga  | 540 |
| acacaccctc | cggaaacggg  | ggctgttct  | cgcagctgtg | ctgttcatca | caggcatcat  | 600 |
| catcctcacc | agtggcaagt  | gcaggcagct | gtcccggtta | tgcgggaatc | attgcagggtg | 660 |
| agtccatcag | aaacaggagc  | tgacaaccyg | ctgggcaccc | gaagaccaag | ccccctgcca  | 720 |
| gctcaccgtg | cccagcctcc  | tgcacccctt | cgaagagcct | ggccagagag | ggaagacac   | 780 |
| gatgatgaag | ctggagccag  | ggctgcccgt | ccgagctctc | tacctcccc  | aaccctgccc  | 840 |
| gcccctgaag | gctaccctggc | gccttggggg | ctgtccctca | agttatctcc | tctgytaaga  | 900 |
| caaaaagtaa | agcactgtgg  | tctttgcaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 960 |
| aaaaaaaaaa | aaaaaaaaaa  | aattcgag   |            |            |             | 988 |

<210> 650  
 <211> 1172  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (904)..(904)  
 <223> n equals a,t,g, or c

|             |             |            |            |               |             |      |
|-------------|-------------|------------|------------|---------------|-------------|------|
| ggcggggccga | ggactccagc  | gtgcccaggt | ctggcatcct | gcacttgctg    | cccttgaca   | 60   |
| cctgggaaga  | tggccggccc  | gtggaccttc | acccttctct | gtggtttgct    | ggcagccacc  | 120  |
| ttgatccaag  | ccaccctcag  | tcccactgca | gttctcatcc | tcggcccaaa    | agtcatcaaa  | 180  |
| gaaaagctga  | cacaggagct  | gaaggaccac | aacgccacca | gcacctctgca   | gcagctgccc  | 240  |
| ctgctcagtg  | ccatgcggga  | aaagccagcc | ggagcatccc | tgtgctgggc    | agcctgggtga | 300  |
| acaccgtcct  | gaagcacrtc  | atctggctga | aggtcacac  | agytaacatc    | ctccagctgc  | 360  |
| aggtgaagcc  | ctcggccaat  | gamcaggagc | tgctagtcaa | gatccccctg    | gacatggtgg  | 420  |
| ctggattcaa  | cacgcccctg  | gtcaagacca | tcgtggagtt | ccacatgacgact | gaggccc     | 480  |
| aagccaccat  | ccgcatggac  | accagtgcaa | gtggccccac | ccgcctggtc    | ctcagtgact  | 540  |
| gtgccaccag  | ccatgggagc  | ctgcgcaccc | aactgctgca | taagctctcc    | ttcctgggtga | 600  |
| acgccttagc  | taagcaggtc  | atgaacctcc | tagtgccatc | catgccaaag    | tggcccaact  | 660  |
| gatcgtgctg  | gaagtgtttc  | cctccagtga | agccctccgc | cctttgttca    | ccctgggcat  | 720  |
| cgaagccagc  | tcggaagctc  | agttttacac | caaaggtgac | caacttatac    | tcaacttgaa  | 780  |
| taacatcagc  | tctgatcgga  | tccagctgat | gaactctggg | attggctggg    | tccaacctga  | 840  |
| tgttctgaaa  | aacatcatca  | ctgaratcat | ccactccatc | ctgtgccga     | accagaatgg  | 900  |
| caanttaaga  | ctgggggtccc | agtgtcattg | gtgaaggcct | tgggattcga    | ggcagctgag  | 960  |
| tcctcactga  | ccaaggatgc  | ccttgtgtct | actccagcct | ccttgtggaa    | accasctct   | 1020 |
| cctgtctccc  | agtgaagact  | tggatggcag | ccatcaggga | argctgggtc    | ccagctggga  | 1080 |
| rtatgggtgt  | gagctctata  | gaccatccct | ctctgcaatc | aataaacact    | tgcctgtgaa  | 1140 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aa         |               |             | 1172 |

<210> 651  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> n equals a,t,g, or c

<400> 651  
 ggggacgtgc acgggggccgc cctcctggcc ctgaagctgc gccggcctcc ctgagcgttt 60  
 cgctgcggag ggaagtccac tctcggggag agatgctgat gccgggtccac ttcctgctgc 120  
 tcctgctgct gctcctgggg ggccccagga caggcctccc ccacaagttc tacaaagcca 180  
 agcccatctt cagctgcctc aacaccgccc tgtctgaggc tgagaagggc cagtgggagg 240  
 atgcatccct gctgagcaag aggagcttcc actacctgcg canaagsacg cctcttcggg 300  
 agaggaggag gagggcaaa agaaaaagac tttcccatc tctggggcca ggggtggarc 360  
 cagaggcacc cggtagat acgtgtccca agcacccc aggggaaagc cacgccagga 420  
 cacggccaag agtccccacc gcaccaagtt caccctgtcc ctcgacgtcc ccaccaacat 480  
 catgaacctc ctcttcaaca tcgccaaggc caagaactgc gtgccc 526

<210> 652  
 <211> 1566  
 <212> DNA  
 <213> Homo sapiens

<400> 652  
 cgcgtccggc gcccggcagc tgtccaccga tccccgccac cgcggccggc cccccccacc 60  
 ccgcgagccc atggaggctc cgggaccccg cgccttgccg actgcgctct gtggcggtg 120  
 ttgctgcctc ttcctatgtg cccagctggc tgtggctggt aaaggagctc gaggctttgg 180  
 gaggggagcc ctgatccgcc tgaatatctg gccggggc caaggggcct gcaaacagct 240  
 ggaggtctgt gagcactgcg tggagggaga cagagcgccg aatctctcca gctgcatgtg 300  
 ggagcagtg cggccagagg agccaggaca ctgtgtggcc caatctgagg tggtaagga 360  
 aggttgctcc atctacaacc gctcagaggc atgtccagct gctcaccacc accccaccta 420  
 tgaaccgaag acagtcacaa cagggaagccc cccagtcctt gagggccaca gccctggatt 480  
 tgacggggcc agctttatcg gaggtgtcgt gctggtgttg agcctacagg cgggtggcttt 540  
 ctttgtgctg cacttccctca aggccaagga cagcacctac cagacgctgt gactacctgg 600  
 ccagcagcaa gtacctgagt cccagctcac ctcttggtt ctgccccacc gttcccttc 660  
 agtaccaggt gtgctgtctt ctccatgggc aagccctcag gacggtgaca gcgtgctcca 720  
 tgtgagccac accccttttg tctcctccag ttgggggtgt tcctttgtca gatgttggt 780  
 gggaccagga ctacgcctgg gccagtctag gagccagct gagccctcct gtgtcttttc 840  
 ccttcatgct gccagcaggg aagagaacca gtagggtgcca gccaggcaa gcctgtggcc 900  
 cgcgtttctg tggctgtggg caggagctgg gccttggtgc tagttgggtt ttgctgtgag 960  
 aaggggagct gtgcctgagg cctctgtgtg gccgtgtgtg ctgtggggcg ggtcgccaca 1020  
 gcctgtgtta aagtgtttgc tcttctctg ctgcctctc tcgaggcagg gggctccttg 1080  
 ctggctgagg cagtgtcacc ttcttgagtg tctcttttg cctctgcaga atctgacccc 1140  
 ttggggcctg gactccatcc tgagggcaaa ggaggatgca gaggggtggc tctgggcacc 1200  
 cttgtgggta agcggggggc gggggcggga aaaactctgg ccgccagttt ttggtcctg 1260  
 cgggcaccaa gcaggctcag tgtctgatgc ctgacatctc ctctgtcct gggcctggaa 1320  
 cctgcagctg agaaaatccc tcaaccacct cgtctctccc atcgccctg ctgggcccc 1380  
 cagcctgaca gtgggttgta tgctgctc tttccaccaa ctggcctggg cactgcccc 1440  
 aaataaagga actctgcat gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560  
 aaaaaa 1566

<210> 653  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

<400> 653  
 taccggtccg gaattcccg gtcgacccac gcgtccggcg cccggcagct gtccaccgat 60  
 cccggccacc gyccccggcc acccccaccc cgcgagccca tggaggctcc gggaccccg 120  
 gccttgccga ctgcgctctg tggcggtgtg tgcgtcctcc tctatgtgc ccagctggct 180  
 gtggctggta aaggagctg aggccttggt agggagccc tgatccgcct gaatatctgg 240  
 ccggcgggtc aaggggctg caaacagctg gaggtctgtg agcactgcgt ggaggagagac 300

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| agagcgcgca  | atctctccag | ctgcatgtgg | gagcagtgcc  | ggccagagga | gccaggacac | 360  |
| tgtgtggccc  | aatctgaggt | ggtcaaggaa | ggttgctcca  | tctacaacg  | ctcagaggca | 420  |
| tgtccagctg  | ctcaccacca | ccccacctat | gaaccgaaga  | cagtcacaac | agggagcccc | 480  |
| ccagtcacctg | aggcccacag | ccctggattt | gackggggcca | gctttatcgg | aggtgtcgtg | 540  |
| ctggtgttga  | gcctacaggc | ggtggctttc | tttgtgctga  | cttcctcaag | gccaaggaca | 600  |
| gcacctacca  | gacgctgtga | gtacctggcc | agcagcaagt  | acctgagtc  | cagctcacyt | 660  |
| ctggttcctg  | cccacgttcc | cttcagtacc | caggggtgctg | tcttctccac | tggcaagccc | 720  |
| tcaggacggt  | gacagcgtgc | tycatgtgag | ccacacccct  | tttgtctyct | ccagttgggg | 780  |
| tgtttccttt  | gtcagatggt | ggctgggacc | aggactcagc  | ctggccagt  | ctaggagccc | 840  |
| agctgagccc  | tcctgtgtct | tttcccttca | tgtgccagc   | agggagaga  | accagtaggt | 900  |
| gccagcccag  | caacctgtgg | cccgctttc  | tgtggctgtg  | ggcaggagct | gggccttgtg | 960  |
| tctagttggg  | ttttgctctg | agaaggggag | ctgtgctgag  | gccctctgtg | tgccgtgtgt | 1020 |
| gctgtggggc  | gggtcgccac | agcctgtggt | aaagtgtttg  | ctcttcc    |            | 1067 |

<210> 654  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| <400> 654  |            |            |            |             |             |      |
| ggcacgagga | ttctaggaca | gggatggggg | tgcagcactg | atccaggacc  | cagaatggag  | 60   |
| gcatcatgga | gggtccccgg | ggatggctgg | tgtctgtgt  | gtggccata   | tcgctggcct  | 120  |
| ctatggtgac | cgaggacttg | tgccgagcac | cagacgggaa | gaaaggggag  | gcaggaagac  | 180  |
| ctggcagacg | ggggcggcca | ggcctcaagg | gggagcaagg | ggagccgggg  | gcccctggca  | 240  |
| tccggacagg | catccaaggc | cttaaaggag | accaggggga | acctgggccc  | tctggaaacc  | 300  |
| ccggcaaggt | gggctaccca | gggcccagcg | gcccccttcg | gagcccgtgg  | catcccggga  | 360  |
| attaaaggca | ccaagggcag | cccaggaaac | atcaaggacc | agccgaggcc  | agccttctcc  | 420  |
| gccattcggc | ggaaccccc  | aatggggggc | aacgtggcca | tcttcgacac  | ggtcatcacc  | 480  |
| aaccaggaag | aaccgtacca | gaaccactcc | ggccgaatcg | tctgcactgt  | acccggctac  | 540  |
| tactacttca | ccttccaggt | gctgtcccag | tgggaaatct | gcctgtccat  | cgtctctctc  | 600  |
| tcaagggggc | aggtccgacg | ctccctgggc | ttctgtgaca | ccaccaacaa  | ggggctcttc  | 660  |
| caggtggtgt | cagggggcat | ggtgcttcag | ctgcagcagg | gtgaccaggt  | ctgggttgaa  | 720  |
| aaagacccca | aaaagggtca | catttaccag | ggctctgagg | ccgacagcgt  | cttcagcggc  | 780  |
| ttcctcatct | tcccatctgc | ctgagccagg | gaaggacccc | ctccccacc   | cacctctctg  | 840  |
| gcttccatgc | tccgcctgta | aaatgggggc | gctattgctt | cagctgctga  | agggaggggg  | 900  |
| ctggctctga | gagccccagg | actggctgcc | ctgtgacaca | tgctctaaga  | agctcgtttc  | 960  |
| ttagacctct | tcttgaata  | aacatctgtg | tctgtgtctg | ctgaaaaaaaa | aaaaaaaaaaa | 1020 |
| a          |            |            |            |             |             | 1021 |

<210> 655  
 <211> 1086  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| <400> 655   |             |            |             |            |            |     |
| ggattctagg  | acaggggatgg | gggtgcagca | ctgatccagt  | tgacaacagg | aggcagaggc | 60  |
| atcatggagg  | gtccccgggg  | atggctggtg | ctctgtgtgc  | tggccatata | gctggcctct | 120 |
| atggtgaccg  | aggacttgtg  | ccgagcacca | gacgggaaga  | aaggggaggc | aggaagacct | 180 |
| ggcagacggg  | ggcgccagg   | cctcaagggg | gagcaagggg  | agccgggggc | ccctggcatc | 240 |
| cggacaggga  | tccaaggcct  | taaaggagac | cagggggaac  | ctgggcccct | tggaaacccc | 300 |
| ggcaaggttg  | gctacccagg  | gcccagcggc | cccctcggag  | cccgtggcat | cccgggaatt | 360 |
| aaaggcacca  | agggcagccc  | aggaaacatc | aaggaccagc  | cgaggccagc | cttctccggc | 420 |
| attcggcgga  | accccccaat  | ggggggcaac | gtggctcatct | tcgacacggt | catcaccaac | 480 |
| caggaagaac  | cgtaccagaa  | ccactccggc | cgattcgtct  | gcactgtacc | cggctactac | 540 |
| tacttcacct  | tccaggtgct  | gtcccagtgg | gaaatctgcc  | tgtccatcgt | ctcctctca  | 600 |
| agggggccagg | tccgacgctc  | cctggcttc  | tgtgacacca  | ccaacaaggg | gctcttccag | 660 |
| gtggtgtcag  | ggggcatggt  | gcttcagctg | cagcaggggtg | accaggtctg | ggttgaaaaa | 720 |

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| gacccccaaaa | agggtcacat | ttaccagggc | tctgaggccg  | acagcgtctt | cagcggcttc | 780  |
| ctcatctttcc | catctgcctg | agccagggaa | ggacccccctc | ccccacccac | ctctctggct | 840  |
| tccatgctcc  | gctgtataaa | tggggggcgt | attgcttcag  | ctgctgaagg | gagggggctg | 900  |
| gctctgagag  | ccccaggact | ggctgccccg | tgacacatgc  | tctaagaagc | tcgtttctta | 960  |
| gacctcttcc  | tgaataaac  | atctgtgtct | gtgtctgctg  | aaaaaaaaaa | aaaaaaaaaa | 1020 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaactcg | agggggggcc  | cgttacccaa | ttcgccgtat | 1080 |
| aatgag      |            |            |             |            |            | 1086 |

<210> 656  
 <211> 1352  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |             |            |      |
|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 656   |             |             |             |             |            |      |
| gcgtccgctt  | cacagtttca  | ccttcaggct  | caaagctggc  | tctgcagggg  | acataggagg | 60   |
| cacaccgaag  | acccacctcc  | tggcctttctc | cctcctctgc  | ctcctctcaa  | aggtgcgtac | 120  |
| ccagctgtgc  | ccgacaccat  | gtacctgccc  | ctggccacct  | ccccgatgcc  | cgctgggagt | 180  |
| acccctgggtg | ctggatggct  | gtggctgctg  | ccgggtatgt  | gcacggcggc  | tgggggagcc | 240  |
| ctgctcgacc  | ctccacgtc   | gcgacgccag  | ccagggcctg  | gtctgccagc  | ccggggcagg | 300  |
| acccgggtgga | cgggggggccc | tgtgcctctt  | ggcagaggac  | gacagcagct  | gtgaggtgaa | 360  |
| cggccgcctg  | tatcggaag   | gggagacctt  | ccagccccac  | tgcagcatcc  | gctgccgctg | 420  |
| cgaggacggc  | ggcttcacct  | gcgtgccgct  | gtgcagcgag  | gatgtgcggct | gccagctg   | 480  |
| ggactgcccc  | caccccagga  | gggtcgaggt  | cctgggcaag  | tgctgccctg  | agtgggtgtg | 540  |
| cggccaaagga | gggggactgg  | ggacccagcc  | ccttcagacc  | caaggacccc  | agttttctgg | 600  |
| ccttgtctct  | tccctgcccc  | ctggtgtccc  | ctgcccagaa  | tggagcacgg  | cctggggacc | 660  |
| ctgctcgacc  | acctgtgggc  | tgggcatggc  | caccgcgggtg | tccaaccaga  | accgcttctg | 720  |
| ccgactggag  | acccagcgcc  | gcctgtgcct  | gtccaggccc  | tgcccaccct  | ccagggtcgt | 780  |
| cagtcacaaa  | aacagtgcct  | tctagagccg  | ggctgggaat  | ggggacacgg  | tgtccaccat | 840  |
| ccccagctgg  | tggccctgtg  | cctgggccct  | gggtgatgg   | aagagggtcc  | gtgcccaggc | 900  |
| ccttggtctg  | aggcaacact  | ttagcttggg  | tccaccatgc  | agaacaccaa  | tattaacacg | 960  |
| ctgctggtc   | tgtctggatc  | ccgaggtatg  | gcagaggtgc  | aagacctagt  | cctctttcct | 1020 |
| ctaactcact  | gcctaggagg  | ctggccaagg  | tgtccagggt  | cctctagccc  | actccctgcc | 1080 |
| tacacacaca  | gcctatatca  | aacatgcaca  | cgggcgagct  | ttctctccga  | cttcccctgg | 1140 |
| gcaagagatg  | ggacaagcag  | tcccttaata  | ttgaggctgc  | agcaggtgct  | gggtggact  | 1200 |
| ggccattttt  | ctgggggtag  | gatgaagaga  | aggcacacag  | agattctgga  | tctcctgctg | 1260 |
| ccttttctgg  | agtttgtaaa  | attgttcctg  | aatacaagc   | tatgcgtgaa  | aaaaaaaaaa | 1320 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aa          |             |            | 1352 |

<210> 657  
 <211> 1337  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1337)..(1337)  
 <223> n equals a,t,g, or c

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| <400> 657   |             |            |            |             |            |     |
| gcttcacagt  | ttcaccttca  | ggctcaaarc | tggstctgca | ggggacatga  | gaggcacacc | 60  |
| gaagacccac  | ctcctggcct  | tctccctcct | ctgcctcctc | tcaaagggtgc | gtacccagct | 120 |
| gtgcccagaca | ccatgtacct  | gccccctggc | acctccccga | tgcccgtctg  | gagtaccctt | 180 |
| gggtgctggat | ggctgtggct  | gctgcgggtg | atggcacgg  | cggttggggg  | agccctgcga | 240 |
| ccaactccac  | gtctgcgacg  | ccagccaggg | cctggtctgc | cagccccggg  | caggacccgg | 300 |
| tggmcggggg  | gccctgtgcc  | tcttggcaga | ggacgacagc | agctgtgagg  | tgaacggccg | 360 |
| cctgtatcgg  | gaagggggaga | ccttcagacc | ccactgcagc | atccgctgcc  | gctgcgagga | 420 |
| cggcggtctt  | acctgcgtgc  | cgctgtgcag | cgaggatgtg | cggctgccc   | gctgggactg | 480 |

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| ccccacccc  | aggaggggtcg | aggtcctggg  | caagtgtctgc | cctgagtggg | tgtgcgggcca | 540  |
| aggaggggga | ctgggggaccc | agcccccttcc | agcccaagga  | ccccagtttt | ctggccttgt  | 600  |
| ctcttccctg | ccccctgggtg | tccccctgcc  | agaatggagc  | acggcctggg | gaccctgtctc | 660  |
| gaccacctgt | gggctgggca  | tggccacccg  | ggtgtccaac  | cagaaccgct | tctgccgact  | 720  |
| ggagaccag  | cgccgcctgt  | gcctgtccag  | gccctgcca   | ccctccagg  | gtcgcagtc   | 780  |
| acaaaacagt | gccttctaga  | gccgggctgg  | gaatggggac  | acggtgtcca | ccatccccg   | 840  |
| ctggtggccc | tgtgcctggg  | ccctgggctg  | atggaagatg  | gtccgtgccc | aggcccttgg  | 900  |
| ctgcaggcaa | cacttttagct | tgggtccacc  | atgcagaaca  | ccaatattaa | cacgctgcct  | 960  |
| ggtctgtctg | gatccccgagg | tatggcagag  | gtgcaagacc  | tagtccyctt | tcctctaact  | 1020 |
| cactgcctag | gaggtctggcc | aagggtgtcca | gggtcctcta  | gcccactccc | tgccctacaca | 1080 |
| cacagcctat | atcaaacatg  | cacacgggcg  | agcttttctt  | ccgacttccc | ctgggcaaga  | 1140 |
| gatgggacaa | cgccgcctgt  | aatattgagg  | ctgcagcagg  | tgctgggctg | gactggccat  | 1200 |
| ttttctgggg | gtaggatgaa  | gagaaggcac  | acagagattc  | tggatctcct | gcgcctttt   | 1260 |
| ctggagtttg | taaaattgtt  | cctgaataca  | agcctatgcg  | tgaaaaaaaa | aaaaaaaaaa  | 1320 |
| aaaaaaaaaa | aaaaaan     |             |             |            |             | 1337 |

<210> 658

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (637)..(637)

<223> n equals a,t,g, or c

<400> 658

|             |             |             |            |              |             |      |
|-------------|-------------|-------------|------------|--------------|-------------|------|
| gaattcggca  | yggcgacctt  | tgtgagcgag  | ctggaggcgg | ccaagaagaa   | cttaagcgag  | 60   |
| gccctggggg  | acaacgtgaa  | acaatactgg  | gctaacctaa | agctgtgggt   | caagcagaag  | 120  |
| atcagcaaag  | aggagtttga  | ccttgaagct  | catagacttc | tcacacaggata | aatgtccat   | 180  |
| tctcacaatg  | atttcctcct  | ggccattctc  | acgcgttgct | agatttttgt   | ttctacacca  | 240  |
| gatggtgctg  | gatctttgcc  | ttggccaggg  | ggttccgcag | caaaacctgg   | gaaaacccaa  | 300  |
| gggaaagaaa  | aagctttctt  | ctgttcgtca  | gaaatttgat | catagattcc   | agcctcaaaa  | 360  |
| tcctctctca  | ggagcccagc  | aatttggggc  | aaaggatccc | caagatgatg   | acgacttgaa  | 420  |
| actttgttcc  | cacacaatga  | tgcttcccac  | tcgaggccag | cttgaaggga   | gaatgatagt  | 480  |
| gactgcttat  | gagcatgggc  | tggacaatgt  | caccgaggag | gctgtttcag   | ctgttgtcta  | 540  |
| tgctgtggag  | aatcacctta  | aagatatact  | gacgtcagtt | gtgtaagaa    | ggaaagctta  | 600  |
| tcggttacga  | gatggtcatt  | ttaaatatgc  | ctttggnagt | aacgtgaccc   | cgcagccata  | 660  |
| cctgaagaat  | agtgtagtag  | cttacaacaa  | cttaatagaa | agccctccag   | cttttactgc  | 720  |
| tcctgtgtct  | ggtcagaatc  | cagcttctca  | cccacccctc | gatgatgctg   | agcagcaggc  | 780  |
| tgactcctg   | ctggcatgct  | ccggagacac  | tctacctgca | tctttgcctc   | cggtgaacat  | 840  |
| gtacgatctt  | tttgaagctt  | tgtaggtgca  | cagggaagtc | atccctacac   | atactgtcta  | 900  |
| tgctcttaac  | attgaaagga  | tcatcacgaa  | actctggcat | ccaaatcatg   | aagagctgca  | 960  |
| gcaagacaaa  | gttcaccgcc  | agcgtctggc  | agccaaggg  | gggcttttgc   | tgtgctaaat  | 1020 |
| taggatttga  | gggtgtggga  | ccctcaccra  | attcattgat | tactgaaaat   | tgaatgtttt  | 1080 |
| ttgggtccac  | atttcaaggc  | tgaagtgtgt  | agtgtatata | taacctttcc   | tatggaaatg  | 1140 |
| tgacattgag  | tacattttgt  | gttgctgttg  | tgaagccatt | aatataaatc   | tttggtaatg  | 1200 |
| accatatact  | ctatatgtat  | gtgttcccag  | ttgtgggagc | aggcactaat   | gaaatcctgt  | 1260 |
| gcctggaatg  | gagatattta  | ggtacctgag  | gcttagtgct | ctgtgggtctg  | catgtaagat  | 1320 |
| agatgacatc  | ctagaacaaa  | gaagctgttt  | taacttaatc | cccctgatca   | gcaggatatc  | 1380 |
| tgtgtgttca  | gtgacatcat  | acattctgta  | tcagaagtc  | taaaatttct   | gcctttctcc  | 1440 |
| taaagaatgt  | gttcttgcatt | tttggttgaa  | ataacctaca | cagtgttaaa   | aatcagatac  | 1500 |
| ctccttttagt | gaccagttca  | aatttttaata | gcgataggta | gcccctgaga   | aattttatcac | 1560 |
| tataactcca  | caggaaatat  | gacttgaag   | tgctctgtgt | actaaacaaa   | ataaagcccc  | 1620 |
| tctttgcatt  | taaaaacaaa  | gtcaaaacaa  | aactcttgta | atgcaattaa   | ttaacttyat  | 1680 |
| gtcttcccat  | gactcaagtt  | ttgttaataa  | tgcccaaaaa | ctttgattgg   | cagtttcttc  | 1740 |
| ggttaattat  | tcctatagaa  | tgtattttta  | gaaatctata | caaattggat   | atatgcttgg  | 1800 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| taattctcca | gtttctagga | ggtacctat  | tctaccgttt | caagtgatga  | agtgaaaata | 1860 |
| atttacattc | gatagtgtta | ctgataacaa | acctacttaa | gagatatgtt  | gctttttact | 1920 |
| taagggatag | tgttgataga | taaattagaa | tgtatagata | ggttttgtgaa | agtctaaata | 1980 |
| atggctgtat | agatatgtat | atatggttca | cayatctgga | tctgtgtatt  | tgattttgt  | 2040 |
| ctttaaatgt | gacaaataaa | ccttttggga | gaaaaaaaaa | aaaaaaaaaac | tc         | 2092 |

<210> 659

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 659

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ggagatgttt  | aaggattacc  | cgcagccat   | aaaaccatcc | tacgatgtgc  | tgctgctgct  | 60   |
| gctgctgcta  | gtsytcctsc  | tgcaggccgg  | cctcaacacg | ggcaccgcca  | tccagtgygt  | 120  |
| gcgcttcaag  | gtcagtgcga  | ggctgcaggg  | tgcctcctgg | gacacccaga  | acggcccgcga | 180  |
| ggagcgcctg  | gctggggagg  | tggccaggag  | ccccctgaag | gagttcraca  | aggaaagc    | 240  |
| ctggagagcc  | gtcgtggtgc  | aaatggccca  | gtgaccccca | gacgcggaaa  | ccgggtggca  | 300  |
| gckcccagcc  | tggcccgaag  | catggaaacg  | cacaaccctt | aatcgccctg  | agctactgct  | 360  |
| tctaacacct  | cttttccctt  | gtgtgagggc  | aaaccaggct | gcagggtggg  | ttttcaacttc | 420  |
| ctagggtagt  | ttaattttta  | aataggccaa  | tggtggctag | tctgtgcctc  | agtgaatgca  | 480  |
| gtcagctccg  | agtggctccc  | gtgtcgtaac  | agcaggagca | tggccgcaac  | ttcccaggcc  | 540  |
| gaggaaggcg  | ccccggctcg  | gcctcttgag  | agccccacc  | ctgaactggc  | cccagctcct  | 600  |
| cttccctgct  | ctctcatggc  | ttgggctgga  | gtgggctctc | tggacctgacc | agactgtgg   | 660  |
| gtccctgcgt  | ctcctgcccc  | ctctgaccgg  | gtttcctccc | tccacgctta  | gggtctgtcc  | 720  |
| cgggtactca  | gtcagcccag  | tgggatctta  | cccacttccc | tgaaggtgc   | acctgccccca | 780  |
| ggctcaggct  | gcccagcggc  | tcttccctga  | cagtgaagag | agggctgggc  | gcctctgtcc  | 840  |
| tggcccggga  | gcgcaggggg  | cccctcctcc  | agagcctggg | cgcaagcgac  | acaggctgcc  | 900  |
| gctgctctcc  | aggtgaaatn  | cacaccagtc  | cacgcggggg | cgccctgcct  | gtctccctac  | 960  |
| ttagaccagc  | tcattctaga  | gggatccamc  | ggcamaactg | cgggcccacg  | tccctgggtgc | 1020 |
| tgctcatgcc  | agcttggaag  | gccacgtggc  | cgctgcccac | gtccgggcca  | ctgtcatgcc  | 1080 |
| cagcttgga   | tgccacatgg  | ccgctgcccc  | cgtcccgggc | actgtcatgc  | ccagcttgga  | 1140 |
| gtgccacgtg  | gcccgtgctg  | tgacaggcag  | tggtcttggg | gggtgggctg  | catccaaggc  | 1200 |
| tttgtaaacc  | ggctggacca  | cgtctccctg  | gccccagtga | ccgggggaag  | ctgagcccct  | 1260 |
| ccctcctgtg  | tttgctcccc  | ttactcaaaa  | tgcaggacag | atcagggtcag | agcccaggaa  | 1320 |
| ttctcacagg  | ttcacccagc  | gccctctacc  | tcctagcaag | tactttgtct  | tgatcctcac  | 1380 |
| tgagaaggcc  | ccagggcagt  | ggtcttctcc  | atctccgctg | ttttggggtc  | ttaggggtaca | 1440 |
| gcccaggcgg  | tcactgcccc  | cctgccaggc  | tgcagggaa  | ggtgggtgtg  | agaataaac   | 1500 |
| tggctttggg  | tagtgccatg  | gccaggagtg  | ggtttccctg | cgtctcctcg  | tcccaggggc  | 1560 |
| gcctgggtcc  | tcccagctga  | cggcagtaaa  | tccacagtga | ggtggggcga  | ctgtgaaact  | 1620 |
| ggaatgctgt  | tactttgata  | attactttcc  | agcagggtgt | ttccttcaca  | atgggtttgt  | 1680 |
| ttctttcctt  | ctgatctgag  | aagacatgaa  | cgttttctct | tcaccgccgt  | gggggtgtatt | 1740 |
| gactggtccc  | ccatgggctg  | ctggaaaggc  | ccggagatgc | atctgtggcc  | tggggccatc  | 1800 |
| aagatcaaag  | aaccaggag   | cctggggagat | gcagctggat | ggggcgccct  | gcagaccctg  | 1860 |
| ccagggggtt  | tgaggaccct  | cccaggtttc  | ccatgcgga  | acaggagtga  | ctctggctgc  | 1920 |
| caagatacct  | tcatggtgtt  | catgacaagt  | ggaatcatta | ttttcaacca  | ttgaaggggg  | 1980 |
| atgcaggcaa  | gacaccttcc  | cagctgtctc  | tagaggggac | aagccaggcc  | ctctctgcag  | 2040 |
| tccctcggcag | ctccggaagg  | acacagtcag  | gggcccggca | aacacttttg  | ccacagcccc  | 2100 |
| aaacaagcgc  | caccgtggga  | gaggagaggc  | tgctgtcact | ggtaccggat  | gcagacccca  | 2160 |
| ccctgtctgc  | aggccacccc  | cacctccctg  | cagcttttag | gctggcgggg  | tctgctcctg  | 2220 |
| ggaatggggg  | gggagccaca  | gggacgaccc  | ggggcgggct | gatgtcttct  | tgggggcaga  | 2280 |
| ccagagagct  | caagtttctag | agtcagaatt  | aggcacttgg | agcgtttttg  | ctggcttgca  | 2340 |
| ctttcttatt  | ttcttatttt  | agagcgctta  | aaaaatccgg | aaaaatgggg  | tttaaaagaa  | 2400 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| ctgtctcttt | cagtctacat | ttttgtttta  | tacgcttgag | caataaacgc | tgacttgacg | 2460 |
| acgtgaaaaa | aaaaaaaaaa | aaaaaaaaaac | tcga       |            |            | 2494 |

<210> 660  
 <211> 1957  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| <400> 660   |             |            |            |             |             |      |
| cctagctgtc  | cccctgagat  | gaagaaagag | ctccctgttg | acagctgcct  | gccccgctca  | 60   |
| ctcgagcttc  | accctcagaa  | gatggatccc | aagagacagc | acattcagct  | cctgagcagc  | 120  |
| ctgactgagt  | gcctgacggt  | ggacccctc  | agtgccagcg | tctggaggca  | gctgtaccct  | 180  |
| aagcacctgt  | cacagtccag  | ccttctgctg | gagcacttgc | tcagctcctg  | ggagcagatt  | 240  |
| cccaagaagg  | tacagaagtc  | tttgcaagaa | accattcagt | ccctcaagct  | taccaaccag  | 300  |
| gagctgctga  | ggaagggtag  | cagtaacaac | caggatgtcg | tcacctgtga  | catggcctc   | 360  |
| aagggcctgt  | tgcagcaggt  | tcagggctct | cggctgcct  | ggacgcggct  | cctcctgttg  | 420  |
| ctgctggctc  | tcgctgtagg  | cttcctgtgc | catgacctcc | ggtcacacag  | ctccttccag  | 480  |
| gctccctta   | ctggccggtt  | gcttcgatca | tctggcttct | tacctgctag  | ccaacaagcg  | 540  |
| tgtgccatag  | tctactcta   | agtctgcaa  | ggctacagct | ggctggggga  | gacactgccg  | 600  |
| ctctggggct  | cccacctgct  | caccgtgggt | cggccacagc | tgacagctggc | ctgggctcac  | 660  |
| accaatgcca  | cagtcagctt  | cctttctgcc | cactgtgcct | ctcaccttgc  | gtggtttggt  | 720  |
| gacagtctca  | ccagtctctc  | tcagaggcta | cagatccagc | tccccgattc  | ctggaatcag  | 780  |
| ctactccgct  | atctgagaga  | gctgcccctg | cttttccacc | agaatgtgct  | gctgccactg  | 840  |
| tggcacctct  | tgcttgaggc  | cctggcctgg | gcccaggagc | actgccatga  | ggcatgcaga  | 900  |
| ggtgaggtga  | cctgggactg  | catgaagaca | cagctcagtg | aggtgtcca   | ctggacctgg  | 960  |
| ccttgccctac | aggacattac  | agtggcttct | ttggactggg | cacttgccct  | gatatcccag  | 1020 |
| cagtaggccc  | tgcccttcctg | gccactgatt | tctgcatggg | tagaccatcc  | aagactgcag  | 1080 |
| cgggtagaag  | gtggcagttc  | ttcatgggag | tctttttaac | ttggtgcctg  | agttctctcc  | 1140 |
| taggcaagtg  | gccagttgcc  | tcacactcag | ttcttccatc | tttgggtggg  | acagggccca  | 1200 |
| gcagcatctc  | agcctcctac  | ccacaattcc | actgaacact | tttctggccc  | tactgcacat  | 1260 |
| ggcccccagc  | ctccatcctt  | gtgctggtag | cctctcacia | ctccgcccctt | gccctctgcc  | 1320 |
| ttccacttcc  | ttccatctca  | tttctaaacc | ccaaacagct | catctctaaa  | aagatagaac  | 1380 |
| tcccagcagg  | tggcttctgt  | gttcttctga | caaatgattc | ctgcttctcc  | agacttttagc | 1440 |
| agcctcctgt  | tcccattctt  | ggtcacagct | ctagccacag | cagaaggaaa  | ggggcttcca  | 1500 |
| gaagaatata  | gcaccgcatt  | gggaaacagc | agcctcacct | ccacctgaag  | cctgggtgtg  | 1560 |
| gctgtcagtg  | gacatgggga  | gctggatgga | aatgcctctc | attcaaaat   | gcccagcctg  | 1620 |
| ccccaaatgc  | ctctaagccc  | ctccctgtcc | cctcccttgt | agtctactt   | cttccaaactt | 1680 |
| tccattcccc  | atcatgctgg  | gggtcttggt | cacaaggctc | agcttctctc  | cactgtccat  | 1740 |
| ccctcctatc  | atctgtagag  | cagagcacag | gcagttgtgt | gccttggggc  | cagggaaccc  | 1800 |
| tccatcaacc  | tgagacagga  | ctcagtatat | ggttcttggg | tatgccctac  | caggtggaat  | 1860 |
| aaaggacaca  | gatttgattt  | ctaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1920 |
| aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaa    |             |             | 1957 |

<210> 661  
 <211> 730  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 661  |            |            |            |            |            |     |
| gtgggacat  | cttcctgtgg | atcttctggc | ctagcttcaa | tgctgcactc | acagcgctgg | 60  |
| gggctgggca | gcatcggacg | gccctcaaca | catactactc | cctggctgcc | agcacccttg | 120 |
| gcacctttgc | cttgtagcc  | cttgtagggg | aagatgggag | gcttgacatg | gtccacatcc | 180 |
| aaaatgcagc | gctggctgga | ggggttggg  | tggggacctc | aagtgaaatg | atgctgacac | 240 |
| ccttgggggc | tctggcagct | ggcttcttgg | ctgggactgt | ctccacgctg | gggtacaagt | 300 |
| tcttcacgcc | caccttgaa  | tcaaaattca | aagtccaaga | cacatgtgga | gtccacaacc | 360 |
| tccatgggat | gccgggggtc | ctggggggcc | tcttgggt   | ccttgtggct | ggacttgcca | 420 |
| cccatgaagc | ttacggagat | ggcctggaga | gtgtgtttcc | actcatagcc | gagggccagc | 480 |



|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| gcatgccacg | tcacaggcca | tgcaccagct  | cttcgggctg  | tttgtcacac | tgatgtttgc | 540 |
| ctctgtgggc | gggggccttg | gagggcatcat | attgggtctta | tgacctccta | gacccctgtg | 600 |
| ccctgtggca | tgggtggcam | cctcctccat  | ggtggggggc  | agagaagcct | cacagatcct | 660 |
| cccctaccac | caccagggct | cctgctgaag  | ctaccctttc  | tggactcccc | ccccagactc | 720 |
| ccagcactac |            |             |             |            |            | 730 |

<210> 662  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (76)..(76)  
 <223> n equals a,t,g, or c

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 662  |            |             |             |            |            |     |
| cagacttccc | agcactacga | ggaccaagtt  | cactggcagg  | tgcctggcga | gcatgaggat | 60  |
| aaagcccaga | gacctntgag | ggtggaggag  | gcagacactc  | aggcctaacc | caytgccagc | 120 |
| ccctgagrpg | acacgctcct | tttcgaagat  | gctgactggc  | tgctactagg | aagttctttt | 180 |
| tgagctccca | ttcctccagc | tgcaagaagg  | gagccatgag  | ccagaaggag | gcccccttcc | 240 |
| acaggcagcg | tctccacagg | gagaggggca  | acaggaggct  | gggaaatggg | ggggagtggt | 300 |
| gccgtaactg | ggtacaatag | ggggaacctc  | accagatgcc  | caacccgact | gccctaccag | 360 |
| cctgcacatg | ggtagaagag | gccaaattga  | ggcaccacaag | tgatccactg | gccccacgtc | 420 |
| acacagttac | agtgaagccc | aagccaggcc  | tggttgaggg  | tgataaacgc | cactgtctct | 480 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaactc | gaggggggggc | ccgtacccaa | tcgcctaaga | 540 |
| tgtatgctat |            |             |             |            |            | 550 |

<210> 663  
 <211> 807  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 663  |             |            |            |            |             |     |
| cccacgcgtc | cggacgtcct  | gatagatcct | ctgctccaat | aggcaactcc | ggccttccct  | 60  |
| gccctgacct | ggaacctctg  | ggaggggctg | agagtaagtg | ccgcctctgc | gctccgacgg  | 120 |
| aggcacgagg | cctgtggagt  | aggctccctc | gttccgacag | gtgcgacact | tggcgctcca  | 180 |
| tgcttgccgg | tgccgggagg  | cctggcctcc | cccagggccg | ccacctctgc | tggttgctct  | 240 |
| gtgctttcac | cttaaagctc  | tgccaagcag | aggctcccgt | gcaggaagag | aagctgtcag  | 300 |
| caagcacctc | aaatttgcca  | tgctggctgg | tggaagagtt | tgtggtagca | gaagagtgtc  | 360 |
| ctccatgctc | taattttccg  | gctaaaacta | cccctgagt  | tggtcccaca | ggatatgtag  | 420 |
| agaaaatcac | atgcagctca  | tctaagagaa | atgagttcaa | aagctgccgg | ttcagctttg  | 480 |
| aatggaacaa | cgcttatttt  | ggaagtccga | aaggggctgt | cgtgtgtgtg | gccctgatct  | 540 |
| tcgcttgctc | tgctcatcatt | cgtcagcgac | aattggacag | aaaggctctg | gaaaagggtc  | 600 |
| ggaagcaaat | cgagtccata  | tagctacatt | ccacccttgt | atcctgggtc | ttagagaccc  | 660 |
| tatctcagac | agtgaagtg   | aaatggactg | atttgactc  | ttggttcttt | ggagcttgt   | 720 |
| ggtggaatcc | ccttttcccc  | atcttcttct | ttcagatcat | taatgagcag | aataaaaaaga | 780 |
| gtaaaatggt | aaaaaaaaaa  | aaaaaaa    |            |            |             | 807 |

<210> 664  
 <211> 946  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 664  |            |            |            |            |            |     |
| ggcacgagtg | agattgcac  | cagagagagt | tttaaaagtt | tcccggttga | gtttaatgta | 60  |
| cagttgaagt | tgagacatga | atctctgcat | gtaggggaaa | ttttgtgtct | ggttagtcaa | 120 |

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gaaactatgg | aaaccaattc | ttgatatttt | gaaccattca | cgaagatagt  | ttgagtcatg | 180 |
| agcatgctgt | tgtctagagt | gggcggggat | gactcattgg | agtggatgcg  | ctgotttga  | 240 |
| cttgattttt | ttgagtctga | aattagcttt | ccaggctggg | gcagggaggg  | gagcacaggt | 300 |
| gggatcagta | ctgccccaa  | gcggtggagc | tgtggtgggt | gatcaatact  | gctgccgcct | 360 |
| gtctgcacaa | acatatttct | ctcttcagc  | ccttcagaag | tgtattggaa  | tatgtcgata | 420 |
| acaataatga | tggtagtga  | gatgatgatg | atgtgggtaa | ttctggctac  | cttattgggt | 480 |
| ccaagctccc | cacaattcgt | tgacaaaagc | actctacata | cattctcttt  | agtcctgatc | 540 |
| aaaccacctt | tcagagtagg | atttagtgtc | ctattttaaa | gatgaaggag  | ctcgggctca | 600 |
| gagagagatc | gtttagacac | acacacaact | ttggaatgaa | acatttacagc | ccgggcgcgg | 660 |
| tggcgcgtgc | ctgtagtccc | agctacttgg | gaggctgagg | ctggaggatc  | gcttgagtcc | 720 |
| aggagtcttg | ggctgtagtg | cgctatgccg | atcgggtgtc | cgcactaagt  | ttggcatcaa | 780 |
| tatggtgacc | tcccgggagt | ggaggaccac | caggttgcct | aaggaggggt  | gaaccggtcc | 840 |
| aggtcggaat | gaacatttta | caaaaattga | catttcctta | tgcatagata  | tttcactagg | 900 |
| tccttaaaac | ccacgtgaat | ctgtgattaa | aaaaaaaaaa | aaaaaa      |            | 946 |

<210> 665  
 <211> 1145  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (410)..(410)  
 <223> n equals a,t,g, or c

|             |  |      |
|-------------|--|------|
| <400> 665   |  |      |
| caggcagang  | ggctgagtca caggcacagg tgaggaactc aactcaaact cctctctctg 60    |      |
| ggaaaacgcg  | gtgcttgctc ctcccggagt ggcccttgga ggggtgttga gccctcggtc 120   |      |
| tgccccgtcc  | ggctctctgg gccaaggctg ggtttccctc atgtatggca agagctctac 180   |      |
| tcgtgcgggtg | cttcttctcc ttggcataca gctcacagct ctttggccta tagcagctgt 240   |      |
| ggaaattttat | acctcccggg tgctggaggc tgtaaatggg acagatgctc gggttaaaatg 300  |      |
| cacttttctcc | agctttgccc ctgtgggtga tgctctaaca ggacctgga attttcgtcc 360    |      |
| tctagacggg  | ggacctgagc agtttgtatt ctactaccac atagatccn ttccaaccca 420    |      |
| tgagtgggcg  | gtttaaggac cgggtgtctt gggatgggaa tcctgagcgg tacgatgcct 480   |      |
| ccatccttct  | ctggaaactg cagttcgacg acaatgggac atacacctgc cagggtgaaga 540  |      |
| acccacctga  | tgttgatggg gtgatagggg asatccggct cagcgtcgtg cacactgtac 600   |      |
| gcttctctga  | gatccacttc ctggctctgg ccattggctc tgctgtgca ctgatgatca 660    |      |
| taatagtaat  | tgtagtggtc ctcttcagc attaccggaa aaagcgatgg gccgaaagag 720    |      |
| ctcataaagt  | ggtggagata aaatcaaaag aagaggaag gctcaaccaa gagaaaaagg 780    |      |
| tctctgttta  | tttagaagac acagactaac aatttttagat ggtaagggtc acaaatagggt 840 |      |
| tgatttcttt  | cttcagcttt ctgacatgtc cagcccatct ctaatgagga ctcccagatc 900   |      |
| atcactttat  | ggctgttarg tgtttcccat atgaaattag aggagctggg tcaggggagac 960  |      |
| aaaagtcttc  | tattagtctt atggatagct cctccttgag tgtattttgt gcaaaaagatt 1020 |      |
| aagaagctgg  | actctactgc cattaaagct gagagaatcc taagggttatt tgtggcttcg 1080 |      |
| gggttatatt  | tattactact actactaata aatattcaac aagtaaataa atctttttta 1140  |      |
| aatca       |  | 1145 |

<210> 666  
 <211> 869  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (765)..(765)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (800)..(800)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (847)..(847)  
 <223> n equals a,t,g, or c

<400> 666  
 ggacaagcca tgtgccagac ctagtcaacc tgtctctcaa tgacaacgat ggctccagtg 60  
 gggcttcaga ccaggataacc ctggctcctc tgccctggggc caccctctgg cccctgctgc 120  
 ccactttctc ctaccagtac cdgccccac acccttacag cccgcagcct ccaccctacc 180  
 atgagctttc atcttacacc tatggtgggg gcagtgccag cagccagcat agtgagggca 240  
 gccggagcag tgggtcgaca cggagtgatg ggggggcagg gcgcacgggg aggcccagg 300  
 agcgggcccc cgagtccaag tccggcagtg gcagtgagtc tgagccctcc agcgagggg 360  
 gcagccttcg gcgggggtgg gaagcaagtg ggactagcga tgggggccct cctccatcca 420  
 gaggtcaac tgggggtgcc cctaattctc gagccccacc agggctccat ccctatggac 480  
 cgccccctgg catggccctc ccctacaacc ccatgatggt ggtcatgatg cccccacctc 540  
 cacctccagt cctccagca gtgcagcctc cgggggcccc tccagtcaga gacctgggct 600  
 ctgtgcccc agaactgaca gccagccgcc aaagcttcca catggccatg ggcaatccca 660  
 gcgagttctt tgtggatggt atgtagccca ctgtggggcc aggytgggcc gggcgctcct 720  
 ggtgtgtgac tgggtgtcct ggccgtcatg tgcttgcctt tacantgct gggctcaagc 780  
 ctaccagctg ctgcatacan gagattgtgg gccactgtga ctcttcacca agcatgcctg 840  
 gttcctnccc cccttcctt caaggggta 869

<210> 667  
 <211> 692  
 <212> DNA  
 <213> Homo sapiens

<400> 667  
 cccactttct ctgaccagta ccttgccccca cacccttaca gcccgcagcc tccaccatac 60  
 catgagcttc cacatgacca tgggcaatcc cagcgagttc tttgtggatg ttatgtagcc 120  
 cactgtgggg ccaggctggg ccgggcgctc ctgggtgtgt actgggtgtc ctggccgtca 180  
 tgtgcttgct cttacagtgc ctgggctcag cctaccagct gctgccacc aggagattgt 240  
 ggccactgtg actctcacca gcagtgcctg gttcctcccc cttccctcag gggtagacaa 300  
 gggacctttg attattttta gctttgtttt tttataagcc tttttggggg ttaaaataga 360  
 gtttcttaca tttttgggac ttttttaata ggcatttcct cttttatatg aagaattccc 420  
 atccattggg cccttcttaa ccccagaatg tgacctcctc ctccagttac ccacagccct 480  
 gccctttgca gggttggggg tggtcagcgg taccgcgggg ttaggcattc tagacagcag 540  
 cctgaggaag ctgggagatt tgggcatgt agctgccttt gttactctat ttattttagt 600  
 cacttgata aaacacccaaa taaagcaata gaggcaaact caaaaaaaaa aaaaaaaaaa 660  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 692

<210> 668  
 <211> 3113  
 <212> DNA  
 <213> Homo sapiens

<400> 668

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| gttattaatg  | accgctgagc  | aggcagcacc  | atgtcagtgt  | gacaactgaa | tccgggtgaac | 60   |
| gatgcaccac  | taaccacccat | ggaaacaagg  | aaaaataaag  | ccagctcaca | ggatctctct  | 120  |
| tacttggttg  | gagagcctca  | gcctgcccgc  | tgagaaaaag  | agttccagga | aaaagaagga  | 180  |
| atccccggctg | cagcctcctg  | ccttccttta  | tatttttaaaa | tagagagata | agattgcgtg  | 240  |
| catgtgtgca  | tatctatagt  | atataattttg | tacactttgt  | acacagaca  | cacaaatgca  | 300  |
| cctattttata | ccgggcaaga  | acacaacccat | gtgattatct  | caaccaagga | actgagggaat | 360  |
| ccagcacgca  | aggacatcgg  | aggtgggcta  | gcactgaaac  | tgcttttcaa | gcacatgtct  | 420  |
| gctattcctg  | caaatactga  | agaagcatgg  | gatttaaata  | ttttacttct | aaataaatga  | 480  |
| attactcaat  | ctcctatgac  | catctatata  | tactccacct  | tcaaaaagta | catcaatatt  | 540  |
| atatcattaa  | ggaaatagta  | accttctctt  | ctccaatatg  | catgacattt | ttggacaatg  | 600  |
| caattgtggc  | actggcactt  | atttcagtg   | agaaaaactt  | tgtggttcta | tggcattcat  | 660  |
| tatttgacaa  | atgcaagcat  | cttccttata  | aatcagttcc  | tattgaactt | actagcactg  | 720  |
| actgttggaat | ccttaagggc  | ccattacatt  | ctggaagaag  | aaagctaaga | tgaagacat   | 780  |
| gccactccga  | attcatgtgc  | tacttggcct  | agctatcact  | acactagtac | aagctgtaga  | 840  |
| taaaaaagtg  | gattgtccac  | ggttatgtac  | gtgtgaaatc  | aggccttggt | ttacaccag   | 900  |
| atccatttat  | atggaagcat  | ctacagtgg   | ttgtaatgat  | ttaggtcttt | taactttccc  | 960  |
| agccagattg  | ccagctaaca  | cacagattct  | tctcctacag  | actaacaata | ttgcaaaaat  | 1020 |
| tgaatactcc  | acagactttc  | cagtaaacct  | tactggcctg  | gatttatctc | aaaacaattt  | 1080 |
| atcttcagtc  | accaatatta  | atgtaaaaaa  | gatgcctcag  | ctcctttctg | tgtacctaga  | 1140 |
| ggaaaacaaa  | cttactgaac  | tgcttgaaaa  | aatgtctgct  | gaactgagca | acttacaaga  | 1200 |
| actctatatt  | aatcacaaat  | tgctttctac  | aatttcacct  | ggagccttta | ttggcctaca  | 1260 |
| taatcttctt  | cgacttcac   | tcaattcaaa  | tagattgcag  | atgatcaaca | gtaagtgggt  | 1320 |
| tgatgctctt  | ccaaatctag  | agattctgat  | gattggggaa  | aatccaatta | tcagaatcaa  | 1380 |
| agacatgaac  | tttaagcctc  | ttatcaatct  | tgcgagcctg  | gttatagctg | gtataaacct  | 1440 |
| cacagaaata  | ccagataacg  | ccttgggttg  | actggaaaac  | ttagaaagca | tctcttttta  | 1500 |
| cgataacagg  | cttattaaag  | taccatgt    | tgctcttcaa  | aaagtgtgaa | atctcaaatt  | 1560 |
| ttggatctta  | aataaaaaatc | ctattaatag  | aatacgaagg  | ggtgatttta | gcaatatgct  | 1620 |
| acacttaaaa  | gagttgggga  | taaataatat  | gcctgagctg  | atttccatcg | atagtcttgc  | 1680 |
| tgtggataac  | ctgccagatt  | taagaaaaat  | agaagctact  | aacaacccta | gattgttta   | 1740 |
| cattcacccc  | aatgcatttt  | tcagactccc  | caagctggaa  | tactcatgc  | tgaacagcaa  | 1800 |
| tgctctcagt  | gcctgttacc  | atggtaccat  | tgagtctctg  | ccaaacctca | aggaaatcag  | 1860 |
| catacacagt  | aaccccatca  | ggtgtgactg  | tgctcatccgt | tggatgaaca | tgaacaaaac  | 1920 |
| caacattcga  | ttcatggagc  | cagattcact  | gttttgctg   | gacccacctg | aattccaagg  | 1980 |
| tcagaattgt  | cggcaagtgc  | atttcaggga  | catgactggaa | atttgtctcc | ctcttatagc  | 2040 |
| tcttgagagc  | tttccttcta  | atctaaatgt  | agaagctggg  | agctatgttt | cctttcactg  | 2100 |
| tagagctact  | gcagaaccac  | agcctgaaat  | ctactggata  | acaccttctg | gtcaaaaact  | 2160 |
| cttgccaat   | accctgacag  | acaagttcta  | tgtccattct  | gagggaacac | tagatataaa  | 2220 |
| tggcgttaact | cccaaagaag  | ggggtttata  | tacttgata   | gcaactaacc | tagttggcgc  | 2280 |
| tgacttgaag  | tctgttatga  | tcaaagtgg   | tggatctttt  | ccacaagata | acaatggctc  | 2340 |
| tttgaatatt  | aaaataagag  | atattcaggc  | caattcagtt  | ttggtgtcct | ggaaagcaag  | 2400 |
| ttctaaaatt  | ctcaaactca  | gtgttaaatg  | gacagccttt  | gtcaagactg | aaaattctca  | 2460 |
| tgtgcgcaa   | agtgtcgaa   | taccatctga  | tgtcaaggta  | tataatctta | ctcatctgaa  | 2520 |
| tccatcaact  | gagtataaaa  | tttgtattga  | tattcccacc  | atctacaga  | aaaacagaaa  | 2580 |
| aaaatgtgta  | aatgtcacca  | ccaaggttt   | gcaccctgat  | caaaaagagt | atgaaaagaa  | 2640 |
| taataccaca  | acacttatgg  | cctgtcttgg  | aggccttctg  | gggattattg | gtgtgatatg  | 2700 |
| tcttatcagc  | tgctctctc   | cagaaatgaa  | ctgtgatgg   | ggacacagct | atgtgaggaa  | 2760 |
| ttacttacag  | aaaccaacct  | ttgcattagg  | tgagctttat  | cctcctctga | taaatctctg  | 2820 |
| ggaagcagga  | aaagaaaaaa  | gtacatcact  | gaaagtaaaa  | gcaactgtta | taggtttacc  | 2880 |
| aacaaatatg  | tcctaaaaac  | caccaaggaa  | acctaactca  | aaaatgaaca | aaaaaaaaaa  | 2940 |
| aagcgaaaga  | ctgcagttgt  | gctaaaaaca  | aaacaaaaca  | aacaaacaaa | caaaaaagta  | 3000 |
| aaaaaagatt  | actttcgaga  | gagaagttaa  | agcttcacca  | atggctggct | cctggaccaa  | 3060 |
| tgggaaatat  | gttacaactt  | tcaggcattt  | tttaagtga   | cttttttttt | ttt         | 3113 |

<210> 669  
 <211> 980  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (937)..(937)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (956)..(956)  
 <223> n equals a,t,g, or c

<400> 669  
 ncgttcgcca gctcgaaatt aaccctcact aaaggaaca aaagctggag ctgcgcgcgc 60  
 tgcaggtcga cactagtgga tccaaagaat tcggcacgag gggcggtcca tcgaggcctt 120  
 tgatcgagc atcgacctgc tgggtgtcgc cctgcgccag aagctggggg atgaccccaa 180  
 ggctccgcaa ttgatcaaga cggtagcgcg cgaaggctac ctgttcgacg cccgggatat 240  
 cggttgatgc gcgcgcctt caacacgctg ttcgggcgac tggtcggcct gttgctggtg 300  
 gcgattgtgc tggcccatgt gctggcggtt ttctggttcc accactacgg ccgcgcgcca 360  
 ccaccccgcg cggccttcgt cgaacaacca gatggcagcc tcacgccctt gcgcaaagcg 420  
 cctcgccctt gggtcggcgg cccgggtggtg cccctgacat ttcaatttat ctgcgtgac 480  
 atcgctgcct ggtacggcgc caaactgctg agccggccaa tccagegcct gagcgcagcg 540  
 gccgagcgcc tgagcgtcga cctcgacagc ccgcccctgg tggaaaccgg ccctcgcgaa 600  
 gcacgccaag cggcctcgac cttcaacctg atgcaaaagc gcaccccgga acaagtcagc 660  
 cagcgcgcac gcatgctcgg cgcggtctcc cagcacctgc gcaccccgct ctgcgcctc 720  
 aagttgcgcc tggaaacaaat cgaagacccc aagctgcaag gccagatgcg ccaggacctg 780  
 gacgacatga tcggcatgct cgatgccacc ttgagctacc tgacgaaca gcgcaccagc 840  
 gagacacggc attggctcga tgtacaggcg ttggtggaat ccctgagtga aaacgcccag 900  
 gaccaaggcc gcgacgtgca gttttttttt ggggggnccc ccccgggggg ggggggncca 960  
 aaaaccccc cccctttttt 980

<210> 670  
 <211> 888  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (845)..(845)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (864)..(864)  
 <223> n equals a,t,g, or c

<400> 670  
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 tgcgccagaa gctgggggga gaccccaagg ctccgcaatt gatcaagacg gtacgcggcg 120  
 aaggctacct gttcgacgcc cgggatatcg gttgatgcgc gcgcccttca acacgctggt 180  
 cgggcgactg ttcggcctgt tgctggtggc gattgtgctg gcccatstgc tggcggttctt 240  
 ctggttccac cactacggcc cgccgccacc acycckygcg kccttcgtcgaacaaccaga 300  
 tggcagyctc acgcccttgc gcaaagcgcc tcgcccttgg ttcggcgggc cgggtggtgcc 360

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| cctgacattt  | caatttatct | cgtgatcat   | cgctgcctgg | tacggcgcca | aactgctgag | 420 |
| ccggccaatc  | cagcgctga  | gcgcagcggc  | cgagcgctg  | agcgtcgacc | tcgacagccc | 480 |
| gccccctggtg | gaaaccggcc | ctcgcgaagc  | acgccaaagc | gcctcgacct | tcaacctgat | 540 |
| gcaaaagcgc  | atccgcgaac | aagtcagcca  | gcgcgcacgc | atgctcggcg | cggctctcca | 600 |
| cgacctgcgc  | accccgctct | cgcgccctcaa | gttgcgctg  | gaacaaatcg | aagaccccaa | 660 |
| gctgcaaggc  | cagatgcgcc | aggacctgga  | cgacatgac  | ggcagctcg  | atgccacctt | 720 |
| gagctacctg  | cacgaacagc | gcaccagcga  | gacacggcat | tggctcgatg | tacaggcggt | 780 |
| ggtggaatcc  | ctgagtga   | acgcccagga  | ccaaggccgc | gacgtgcagt | ttttttttgg | 840 |
| gggnccccc   | cccgggggg  | gggncccaa   | aaccccccc  | cctttttt   |            | 888 |

<210> 671  
 <211> 1651  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1648)..(1648)  
 <223> n equals a,t,g, or c

|             |   |
|-------------|---|
| <400> 671   |   |
| ggggacatgt  | ctgggcacaa ggaaaggcaa gcaatggagg cagcaagagc ccttggcagc 60   |
| aagtttccat  | cacctttgcc tgccagtgtg tgagagggc agaggggcag tgagcaggtg 120   |
| acatgcagct  | tccagatacc cacacactgc ttttctcccg cccagctccc accccagtta 180  |
| attgagatgg  | gattgtttct ctttctggtt tcttcctaag cccctctctc atattcctgg 240  |
| tgtgcttatg  | gcctggcaca ccttgtgaaa cagaaaccca agctcctcat ttcggagctg 300  |
| ggatttcgat  | tggctatctg cctccctaac caagctgtcc cttccacctc atccctagag 360  |
| tcaccctctg  | gtctcatcaa catccagtgg gcatttcagy ggcccaggat ccttcmatt 420   |
| gcagatataa  | agcatcagga ccccacacct gggatggaag cttctaggaa ttaatgaagc 480  |
| cccagtagag  | gtgagggtaa acctaaaacg ggaggatag ggcctctccc aaggccctat 540   |
| ggaaagggtga | tgggaaactg ggggctgagg cctcatccta ggagaccctt ggagggaccc 600  |
| acttacccta  | gataggcagc ggaggccaga aactggaaaa cagccactca ttgtcgggtg 660  |
| attacctga   | gcaccacctg tagggactct gttggcctcc agccgtcgtc acacgttcct 720  |
| gacaaccaca  | aaagttcatt tgagggtgcc cagtcagctg actttgcttc caccaggaat 780  |
| accacactgg  | ccctggtcct tctgctgagc tacaggaggc attcccaggg tcttagcaaa 840  |
| aacaaccct   | caaataggcc cagtgcctac aactctagag aggtttcaga tggatttga 900   |
| gaccagaga   | agttaactga ctttcccaa agtcaccac tgtaaattggc agacagatct 960   |
| caaaccaca   | tctgacctg agtccagtgt ttttctctca gtatcatcat tgtcccttaa 1020  |
| atgtgtttga  | cacatcatag tttaaaaac accttcactc atattctctc actactcatc 1080  |
| agtcataaat  | tcagccaatg agaagggtc agagagggtta actaaccagc cagctgtt 1140   |
| acatggggca  | tagactgctt catgaacgct tgactgcagc ttgacctcc tcatgccctc 1200  |
| aaaaaggaag  | gagctgacca aagcttacta taccatagct ggggtctggg acccccagcc 1260 |
| aggtctcaca  | gatgatctgg gaatggctc cctgttgctc tcaggggtcc ggcagtcaca 1320  |
| cagaagagtc  | aggttgaaat ctggcaaga ctttgggtgtg gctttgggaa ctgggtttta 1380 |
| cctcttgggg  | acttcaccaa gacagtggca aaggacacca cctacagctt ccagtgcctc 1440 |
| tctactctcc  | cacctgtgct cctgggggtg aatgagacca gaagcagctg ggacaagatt 1500 |
| tggaaagata  | aagagagcca ggagacaaga ccttgagaga agcasaggtc tgggtggctg 1560 |
| ctgscctctg  | gtggcgacaa tgggtgacac tgtaaaccct tctgcaaggc gacactctcc 1620 |
| cctgactatt  | caggraggga agaagcantt g 1651                                |

<210> 672  
 <211> 1746  
 <212> DNA  
 <213> Homo sapiens

|            |   |
|------------|---|
| <400> 672  |   |
| gcgttcgcgc | acctccagct agggccgatg tggaagcttt ggagagctga agagggcgcg 60 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| gcgggcgctcg | gcgggcgcgct | cttcctgctg  | cttttcgcgc | taggggtccg  | ccagctgctg  | 120  |
| aagcagaggg  | ggccgatggg  | cttccccccg  | gggcgcgcgg | ggctgccatt  | tatcggcaac  | 180  |
| atctattccc  | tggcagcctc  | atccgagctt  | ccccatgtct | acatgagaaa  | gagagccag   | 240  |
| gtgtacggag  | aggtacagcc  | ccgacggggc  | ccgggcaggg | agggccgcca  | ggctggccccg | 300  |
| ggctggccag  | ggccttcctg  | gttggactta  | tggccgcccc | tgggcccact  | agtcgggacc  | 360  |
| tctccgtgtg  | ccggctgccc  | tttgagggac  | acccgcttcc | cgggtctgga  | agggagaaat  | 420  |
| cctcgacgcc  | gtgccactt   | gcagggggag  | ccccgcccct | gccggtgacc  | cactccgggc  | 480  |
| cgaggctccg  | agggcatcca  | gtcctgattt  | tcccgctacc | gctcgagctc  | ttgctcctgc  | 540  |
| gcctgcgccg  | tttggtctgc  | cagccgcgcc  | gccacttcag | gtccaggggtg | gacgcattgcc | 600  |
| ctcaggtgcg  | ggcgtcttgc  | gagtcggcct  | cgcagctctg | tggaagtgc   | acgcggcttg  | 660  |
| tcggaaaatc  | aaggcgttct  | gagttctaga  | tggttaatat | caggttcttc  | ggtgtctgca  | 720  |
| gtcgacgaac  | gactggtgta  | ggcgtttgct  | gtgagaatgg | agaatgcagg  | ggaacgcccc  | 780  |
| tgactgagaa  | gcgggcccctg | ggaaacgatt  | gtgaacgcgt | gaatgaattg  | atgactaaaa  | 840  |
| tccgctgcgg  | gggtccctaca | gcgcagatgg  | taatgccgtt | ctgactggct  | gggaacggca  | 900  |
| ccttagcaga  | tacttaaaag  | gcgccttctg  | tgtgccactg | tactgccaa   | cttggtgact  | 960  |
| catttaaaac  | tcataaccag  | ccggtgaggt  | cggtacttcc | ctcctcctca  | ttctgcggag  | 1020 |
| gggaaagcag  | cacggaatg   | ccctgtgact  | ggcagcggaa | aggcgacca   | ccgcttggtg  | 1080 |
| gtgggtgtcc  | cgacgtccgg  | agggggcagg  | agtttccacg | ggtcctggga  | cagagctcac  | 1140 |
| ctgttttgtt  | ttgaattaca  | cttattttata | tgcaactaca | ggcctgacgc  | tagcggtgaa  | 1200 |
| gaaggcagat  | acagcctttt  | aaggagttgg  | cagatgagtg | ggagagagaa  | aactaactctc | 1260 |
| attatcggcc  | acaggctgtg  | gtcagtgttt  | tgaaggaaaa | gtacagggat  | gtttggcaac  | 1320 |
| tgtggtattt  | caggtttgac  | cttaaatcct  | tacttaaaac | agtttttaca  | aggattggtc  | 1380 |
| taggtgcccc  | ggcgcggtgc  | tcacgcctat  | aatcccagca | ctttgggagg  | ccgaggcggg  | 1440 |
| cggatcacga  | aatcaggaga  | tcgagaccgt  | cgtggcaaac | acggtgaaac  | cccatctcta  | 1500 |
| ctaaaagaat  | acaaaaaatt  | ggccgggcgt  | ggtggcgggc | acctgtggtc  | ccagctattc  | 1560 |
| gggaggctgg  | ggcaggagag  | tggcgtgaac  | ccgggagggc | gagctttcag  | tgagccgaga  | 1620 |
| tcgcgccact  | gcactccagc  | ctgggcaaca  | gagccagact | ccgtctcaaa  | aaaaaaaaaa  | 1680 |
| aaaaaggcgc  | gccgctctag  | aggatccaag  | cttacgtacg | cgtgcatgcg  | acgtcaatag  | 1740 |
| ctcttc      |             |             |            |             |             | 1746 |

<210> 673  
 <211> 2492  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ccacgcgtcc  | ggaggaagga  | tgatgatgaa  | ggacgtaca   | caccattcga | cacccccctcg | 60   |
| ggtaaaactgg | aaacagtga   | atgggcgttc  | acctggccgc  | tgagtttcgt | cttatacttc  | 120  |
| actgtaccca  | actgcaacaa  | gccgcgctgg  | gagaaatgg   | tcatggtgac | gtttgcttcc  | 180  |
| tccacgctgt  | ggatcgacgc  | cttctcctac  | atgatggtgt  | ggatggtcac | aatcattggt  | 240  |
| tacaccctgg  | ggattcctga  | cgtcatcatg  | ggggatcacc  | ttcctggctg | ctgggaccag  | 300  |
| cgtgcctgac  | tgcattggcca | gcctcattgt  | ggccagacaa  | gggatggggg | acatggctgt  | 360  |
| gtccaactcc  | attgggagca  | acgtgtttga  | cactcctgatt | ggcctcggtc | tccctgggc   | 420  |
| tctgcagacc  | ctggctgtgg  | attacggatc  | ctacatccgg  | ctgaatagca | gggggctgat  | 480  |
| ctactccgta  | ggcttgctcc  | tggcctctgt  | ttttgtcacg  | gtgttcggcg | tccacctgaa  | 540  |
| caagtggcag  | ctggacaaga  | agctgggctg  | tgggtgcctc  | ctcctgtatg | gtgtgttcct  | 600  |
| gtgcttctcc  | atcatgactg  | agttcaacgt  | gttcaccttt  | gtgaacctgc | ccatgtgcgg  | 660  |
| ggaccactga  | gccgccgggt  | gcccacagaa  | gctcagctcc  | ttcttttctg | tgcaatacga  | 720  |
| gacccggcgg  | caccccgagt  | cacacaggcc  | cctggggcca  | cggcgttcgt | ctctcctgtg  | 780  |
| ctgtcctcag  | gcctccgctc  | ctgttttgg   | ggcccagggt  | ctccccctgc | ccatcctcgc  | 840  |
| tccccacact  | ccttggtgca  | tgcacacca   | cccttctcctg | cctcctccgt | gtgaagacat  | 900  |
| ccaacatcca  | cgtgactttt  | ccagctccat  | ttttgaacag  | tgactgagat | tctagaaaaa  | 960  |
| ctggctgcta  | actggcctga  | gccaggcaac  | actgattoca  | atccctcctc | cttttttaag  | 1020 |
| ttattttgatg | gaagactcac  | ctaattttgtg | acctgagact  | gttgaagaaa | tagaggag    | 1080 |
| ggggcccgtt  | gattacagag  | agcattttggg | attttgtttg  | gtttggagat | gatgcctagg  | 1140 |
| ttactgggtt  | tggggggatt  | gttttctttt  | gggggccttc  | cccttttact | ctttttcttc  | 1200 |
| cagagatcaa  | gagcttctct  | tgcattcttct | tccactgggc  | tctggattaa | tcaattacc   | 1260 |

|            |             |            |             |                     |            |      |
|------------|-------------|------------|-------------|---------------------|------------|------|
| aaaggctgca | cctgccgtgt  | tgtctgggct | tgcattcccag | atgtgttga           | gtatgcatgg | 1320 |
| atgtagtgct | tttttagagga | gccactgggc | aaggccacca  | agaacaaatg          | catgacattt | 1380 |
| tatagccaag | gacgcctcac  | taaagtctta | tgggcgtccc  | ctggggtttg          | gggggcacaa | 1440 |
| ggttttggag | gaagaagaca  | acttccctca | ttccatcatc  | accatctcttctcactagg |            | 1500 |
| ttctttctag | ttttcaaagc  | aataagtcta | gcctgccttg  | gacaaggggg          | ccccagtta  | 1560 |
| aacaaactac | ccatccatga  | ggtgccaggc | agtcaaaaaa  | cagaagcttc          | cccgattgtg | 1620 |
| agtccatgag | atgtgctctt  | gttgtaaggc | atgtgggtg   | acagggagt           | accagaggc  | 1680 |
| caccactgct | tttcatgcag  | gagttacaga | cactggtttt  | cttggaataat         | ggagagaagc | 1740 |
| gcactttgca | cagacgtcgt  | caattaagtc | ccaatttgcc  | acttggtatt          | gagtacactg | 1800 |
| gaccctgacc | actggctttt  | gggcaaactg | cttcctcacg  | gggcgcttcc          | gccaagccgg | 1860 |
| cccagctgca | cccctccctt  | cctggaggga | tggccaggga  | agggaataac          | agagaactga | 1920 |
| cacttttgaa | accacagaat  | gtgtaacatg | cagatcgctc  | aagggcataa          | gttattgtga | 1980 |
| acgtttttgc | caatccatgc  | tcaacagccc | tgtatgattt  | tgtatgatgc          | tgaattatta | 2040 |
| tgcagactaa | ttccaccacg  | ttgagacaca | ccatgcttgt  | tcacttgtat          | ttattgaaac | 2100 |
| tgtggattct | tgcccgtgct  | gtcccttgta | tttactttta  | gcactgatca          | cttatcattc | 2160 |
| attcggtagt | gttttccctg  | tcccttgtag | acattctggt  | atgaatttgt          | aaaaataccc | 2220 |
| tactacaaat | tggttgaaat  | tttctgtctg | tgggtgcgaac | cagcattaac          | ggatggggca | 2280 |
| cgtgcccac  | tgaggaacag  | gagaagaaat | cccccaattg  | ggctctcaga          | gctaagacac | 2340 |
| acttattgat | tctgttgac   | atgttgact  | ggtttatggc  | gattgttttc          | ttggacggat | 2400 |
| agtgtaaaat | aaacttctct  | gttctctaaa | aaaaaaaaaa  | aaaaaaaaaa          | aaaaaaaaaa | 2460 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aa          |                     |            | 2492 |

<210> 674  
 <211> 1579  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1529)..(1529)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1556)..(1556)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1569)..(1569)  
 <223> n equals a,t,g, or c

|            |            |             |             |                      |             |     |
|------------|------------|-------------|-------------|----------------------|-------------|-----|
| <400> 674  |            |             |             |                      |             |     |
| ggcagaggga | acccacgcgg | aggaaggaag  | agacgcaggc  | aggctgcggt           | tacccaagcg  | 60  |
| gccacccggg | cctcaggac  | cccttccccg  | agagacggca  | ccatgacca            | gggaaagctc  | 120 |
| tccgtggcta | acaaggcccc | tgggaccgag  | gggcagcagc  | agggtgcatg           | cgagagaag   | 180 |
| gaggctccag | cagtgccttc | agccccaccc  | tcctatgagg  | aagccacctc           | tggggagggg  | 240 |
| atgaaggcag | gggccttccc | cccagcccc   | acagcggctg  | ctctccacc            | tagctgggcc  | 300 |
| tatgtggacc | ccagcagcag | ctccagctat  | gacaacggtt  | tccccaccgg           | agaccatgag  | 360 |
| ctcttcacca | ctttcagctg | ggatgaccag  | aaagttcgtc  | gagtctttgt           | cagaaaggtc  | 420 |
| tacaccatcc | tgctgattca | gctgctgggtg | accttggtctg | tcgtggctct           | ctttactttc  | 480 |
| tgtgaccctg | tcaaggacta | tgtccaggcc  | aaccaggt    | ggtactgggc           | atcctatgct  | 540 |
| gtgttctttg | caacctacct | gaccctggct  | tgtgttctg   | gacccaggaggcatttcccc |             | 600 |
| tggaacctg  | attctcctga | ccgtctttac  | cctgtccatg  | gcctacctca           | ctgggatgct  | 660 |
| gtccagctac | tacaacacca | cctccgtgct  | gctgtgctg   | ggcatcacgg           | cccttgctctg | 720 |
| ctctcagtc  | accgtcttca | gcttccagac  | caagttcgac  | ttcacctcct           | gccaggcgct  | 780 |
| gctcttcgtg | cttctcatga | ctcttttctt  | cagcggactc  | atcctggcca           | tcctcctacc  | 840 |



|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| cttccaatat | gtgccctggc | tccatgcagt  | ttatgcagca | ctgggagcgg  | gtgtattttac | 900  |
| attgttcctg | gcacttgaca | cccagttgct  | gatgggtaac | cgacgccact  | cgctgagccc  | 960  |
| tgaggagtat | atTTTTggag | ccctcaacat  | ttacctagac | atcactata   | tcttcacctt  | 1020 |
| cttcctgcag | ctTTTTggca | ctaaccgaga  | atgaggagcc | ctccctgccc  | caccgtcctc  | 1080 |
| cagagaatgc | gcccctcctg | gttccctgtc  | cctcccctgc | gctcctgcga  | gaccagatat  | 1140 |
| aaaactagct | gccaaaccag | cctgtgggca  | ggtaactgtc | taccccagcc  | cagcccagcc  | 1200 |
| ctctgccgct | tgtacatacg | ccatggggac  | cctgaggaac | tgaggccacg  | tcaatccctg  | 1260 |
| tgccgcccc  | ttcgcccgtt | acatcttcca  | aactgggacg | gtcaaggctg  | aaggctcctc  | 1320 |
| tgggtttgag | ggccaagg   | acaaggagga  | gaagcctagc | aggatttcag  | atgcaggaga  | 1380 |
| gagaccag   | aagcccggca | gagcctgagc  | cccaytgca  | tttyctyctag | ggstgcacaw  | 1440 |
| tcatgtggcy | ttagggcama | ytgttyctgca | tccagtctgt | gtyctyctgt  | ctttctcatc  | 1500 |
| caggtcaggc | attgacattt | gtaagaaang  | gggtaaggga | cacagctggg  | caagtnagatt | 1560 |
| ggttggcang | attgctgtc  |             |            |             |             | 1579 |

<210> 675  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| <400> 675   |             |            |             |            |            |     |
| cccacgcgtc  | cgccctggaac | ctgattctcc | tgaccgtctt  | taccctgtcc | atggcctacc | 60  |
| tactgaggat  | gctgtccagc  | tactacaaca | ccacctcgt   | gctgctgtgc | ctgggcatca | 120 |
| cggcccttgt  | ctgcctctca  | gtcaccgtct | tcagcttca   | gaccaagttc | gacttcacct | 180 |
| cctgccagg   | cggtgtcttc  | gtgcttctca | tgactctttt  | cttcagcgga | ctcatcctgg | 240 |
| ccatcctcct  | acccttccaa  | tatgtgccct | ggctccatgc  | agtttatgca | gactgaggag | 300 |
| cggggtgtatt | tacattgttc  | ctggcacttg | acaccagtt   | gctgatgggt | aaccgacgcc | 360 |
| actcgctgag  | ccctgaggag  | tatatttttg | gagccctcaa  | catttaccta | gacatcatct | 420 |
| atatcttcac  | cttcttctctg | cagctttttg | gactaaccg   | agaatgagga | gccctccctg | 480 |
| ccccaccgtc  | ctccagagaa  | tgcgcccctc | ctgggttccct | gtccctcccc | tgcgctcctg | 540 |
| cgagaccaga  | tataaaacta  | gctgccaacc | caaaaaaaa   | aaaaaaa    |            | 587 |

<210> 676  
 <211> 2242  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |             |             |             |      |
|------------|------------|------------|-------------|-------------|-------------|------|
| <400> 676  |            |            |             |             |             |      |
| tcgacccacg | cgtccgggct | gccatggcgg | cggcggggccg | gctcccagac  | tcttgggccc  | 60   |
| tcttctcgcc | gctcctcgca | gggcttgac  | tactgggagt  | cgggccgggtc | ccagcgcggg  | 120  |
| cgctgcacaa | cgtcacggcc | gagctctttg | gggcccaggc  | ctggggcacc  | cttgcggtt   | 180  |
| tcggggacct | caactccgac | aagcagacgg | atctcttcgt  | gctgcgggaa  | agaaatgact  | 240  |
| taatcgtctt | tttggcagac | cagaatgcac | cctatttttaa | acccaaagta  | aaggtatctt  | 300  |
| tcaagaatca | cagtgcattg | ataacaagt  | tgtccctgg   | ggattatgat  | ggagattctc  | 360  |
| aaatggatgt | ccttctgaca | tatcttccca | aaaattatgc  | caagagtga   | ttaggagctg  | 420  |
| ttatcttctg | gggacaaaat | caaacattag | atcctaacaa  | tatgaccata  | ctcaatagga  | 480  |
| cttttcaaga | tgagccacta | attatggatt | tcaatgggtga | tctaattcct  | gatatttttg  | 540  |
| gtatcacaaa | tgaatccaac | cagccacaga | tactattagg  | agggaattta  | tcatggcatc  | 600  |
| cagcattgac | cactacaagt | aaaatgcgaa | ttccacattc  | tcatgcattt  | attgatctga  | 660  |
| ctgaagattt | tacagcagat | ttattcctga | cgacattgaa  | tgccaccact  | agtaaccttc  | 720  |
| agtttgaaat | atgggaaaat | ttggatgaa  | acttytstgw  | magtacymta  | ttggaaaaaac | 780  |
| ctcaaaatat | gatggtggtt | ggacagtcag | catttgacaga | ctttgatgga  | gatggacaca  | 840  |
| tggatcattt | actgccaggc | tgtgaagata | aaaattgcc   | aaagagtacc  | atctacttag  | 900  |
| tgagatctgg | gatgaagcag | tgggttccag | tcctacaaga  | tttcagcaat  | aagggcacc   | 960  |
| tctggggctt | tgtgccattt | gtggatgaac | agcaaccaac  | tgaaatacca  | attccaatta  | 1020 |
| cccttcatat | tggagactac | aatatggatg | gctatccaga  | cgctctggtc  | ataactaaaga | 1080 |
| acacatctgg | aagcaaccag | caggcctttt | tactggagaa  | cgcccttgt   | aataatgcaa  | 1140 |
| gctgtgaaga | ggcgcgtcga | agttaaag   | tctactggga  | gctgacagac  | ctaaatcaaa  | 1200 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| ttaaggatgc | catggttgcc  | accttctttg | acatttacga | agatggaatc | ttggacattg | 1260 |
| tagtgctaag | taaaggatat  | acaaagaatg | attttgccat | tcatacacta | aaaaataact | 1320 |
| ttgaagcaga | tgcttatttt  | gttaaagtta | ttgttcttag | tggtctgtgt | ttaatgact  | 1380 |
| gtcctcgtaa | gataacaccc  | tttgagtgga | atcaacctgg | accttatatc | atgtatacaa | 1440 |
| ctgtagatgc | aaatgggtat  | ctgaaaaatg | gatcagctgg | ccaactcagc | caatccgcac | 1500 |
| atttagctct | ccaactacca  | tacaacgtgc | ttggtttagg | tcggagcgca | aattttcttg | 1560 |
| accatctcta | cgtttgtatt  | ccccgtccat | ctggagaaaa | atctatacga | aaacaagagt | 1620 |
| ggactgcaat | cattccaaat  | tcccagctaa | ttgtcattcc | ataccctcac | aatgtccctc | 1680 |
| gaagttggag | tgccaaactg  | tatcttacac | caagtaatat | tgttctgctt | actgctatag | 1740 |
| ctctcatcgg | tgtctgtgtt  | ttcatcttgg | caataattgg | catttteaat | tggcaggaaa | 1800 |
| agaaagcaga | tgatagagaa  | aaacgacaag | aagccaccgg | gtttcatttt | gatgctatgt | 1860 |
| gacttgccct | taatattaca  | taatggaatg | gctgttcact | tgattagtgt | aaacacaaat | 1920 |
| tctggcttga | aaaaataggg  | gagattaaat | aatgtttata | aatgatgtat | cccatggtaa | 1980 |
| ttattgaaaa | gtattcaaat  | aaatatgggt | tgaatatgtc | acaaggtctt | tttttttaaa | 2040 |
| gcactttgta | tataaaaaatt | tgggttctct | attctgtagt | gctgtacatt | tttgttcctt | 2100 |
| tgtggaatgt | gttgcatgta  | ctccagtgtt | tgtgtattta | taatcttatt | tgcacatgta | 2160 |
| tgatggaaaa | agttgtgtaa  | ataaaaaata | ttaaatgagc | agaaaaaaa  | aaaaaaaaa  | 2220 |
| aaaaaaaaaa | aagggcgggc  | gc         |            |            |            | 2242 |

<210> 677

<211> 2381

<212> DNA

<213> Homo sapiens

<400> 677

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ccacgcgtcc  | cgcaaggcca  | gttctagtgt  | agagagaaaa  | aggagccggc  | agcggctctt  | 60   |
| acgcgtcccg  | gggtgcgcg   | ccactctctc  | ggccggtaac  | gcgggtgctt  | gcggctgtcg  | 120  |
| tcaagcgcg   | cgttgggccc  | gcggggcg    | gctgaggggc  | tgccatggcg  | gcggcgggcc  | 180  |
| ggctcccag   | ctcctgggccc | ctcttctcgc  | cgctcctcgc  | agggttgca   | ctactgggag  | 240  |
| tcgggcccgt  | cccagcgcg   | gcgctgcaca  | acgtcacggc  | cgagctcttt  | ggggccgagg  | 300  |
| cctggggcac  | ccttgcggt   | ttcggggacc  | tcaactccga  | caagcagacg  | gatctcttcg  | 360  |
| tgctgcggga  | aagaaatgac  | ttaatcgtct  | ttttggcaga  | ccagaatgca  | ccctatttta  | 420  |
| aacccaaagt  | aaaggtatct  | ttcaagaatc  | acagtgcatt  | gataacaagt  | gtagtccctg  | 480  |
| gggattatga  | tggagattct  | caaatggatg  | tccttctgac  | atatcttccc  | aaaaattatg  | 540  |
| ccaagagtga  | attaggagct  | gttatcttct  | ggggacaaaa  | tcaaacatta  | gatccctaaca | 600  |
| atatgaccat  | actcaatagg  | acttttcaag  | atgagccact  | aattatggat  | ttcaatgggtg | 660  |
| atctaattcc  | tgatattttt  | ggtatcacaa  | atgaaccaa   | ccagccacag  | atactattag  | 720  |
| gaggggaattt | atcatggcat  | ccagcattga  | ccactacaag  | taaaatgcga  | attccacatt  | 780  |
| ctcatgcatt  | tattgatctg  | actgaagatt  | ttacagcaga  | tttattcctg  | acgacattga  | 840  |
| atgccaccac  | tagtaccttc  | cagtttgaaa  | tatgggaaaa  | tttggatgga  | aacttctctg  | 900  |
| tcagtactat  | attggaaaaa  | cctcaaaaata | tgatgggtgt  | tggaacagtca | gcatttgcag  | 960  |
| actttgatgg  | agatggacac  | atggatcatt  | tactgccagg  | ctgtgaagat  | aaaaattggc  | 1020 |
| aaaagagtac  | catctactta  | gtgagatctg  | ggatgaagca  | gtgggttcca  | gtcctacaag  | 1080 |
| atttcagcaa  | taagggcaca  | ctctggggct  | ttgtgccatt  | tgtggatgaa  | cagcaaccaa  | 1140 |
| ctgaaatacc  | aattccaatt  | acccttcata  | ttggagacta  | caatatggat  | ggctatccag  | 1200 |
| acgctctgg   | cataactaa   | aacacatctg  | gaagcaacca  | gcaggccctt  | ttactggaga  | 1260 |
| acgtcccttg  | taataatgca  | agctgtgaag  | aggcgcgctg  | aatgtttaaa  | gtctactggg  | 1320 |
| agctgacaga  | cctaaatcaa  | attaaggatg  | ccatgggtgc  | caccttcttt  | gacatttacg  | 1380 |
| aagatggaat  | cttggacatt  | gtagtgtctaa | gtaaaggata  | tacaaagaat  | gattttgcca  | 1440 |
| ttcatacact  | aaaaaataac  | tttgaagcag  | atgcttattt  | tgttaaagtt  | attgttctta  | 1500 |
| gtgggtctgtg | ttctaattgac | tgtctcgtga  | gataacaccc  | tttggagtga  | atcaacctgg  | 1560 |
| accttatatc  | atgtatacaa  | ctgtagatgc  | aaatgggtat  | ctgaaaaatg  | gatcagctgg  | 1620 |
| ccaactcagc  | caatccgcac  | atttagctct  | ccaactacca  | tacaacgtgc  | ttggtttagg  | 1680 |
| tcggagcgca  | aattttcttg  | accatctcta  | cgtttgttatt | ccccgtccat  | ctgggaaaaa  | 1740 |
| atctatacga  | aaacaagagt  | ggactgcaat  | cattccaaat  | tcccagctaa  | ttgtcattcc  | 1800 |
| ataccctcac  | aatgtccctc  | gaagttggag  | tcccaactcg  | tatcttacac  | caagtaatat  | 1860 |
| tgttctgctt  | actgctatag  | ctctcatcgg  | tgtctgtgtt  | ttcatcttgg  | caataattgg  | 1920 |

|             |             |            |             |               |             |      |
|-------------|-------------|------------|-------------|---------------|-------------|------|
| cattttacat  | tggcaggaa   | agaaagcaga | tgatagagaa  | aaacgacaag    | aagcccaccg  | 1980 |
| gttttcatttt | gatgctatgt  | gacttgcctt | taatattaca  | taatggaatg    | gctgttcact  | 2040 |
| tgattagttg  | aaacacaaat  | tctggcttga | aaaaataggg  | gagattaaat    | attattttata | 2100 |
| aatgatgtat  | cccatggtaa  | ttattggaaa | gtattcaaat  | aaatatggtttga | aatatgtc    | 2160 |
| acaaggcttt  | tttttttaaa  | gcactttgta | tataaaaatt  | tgggttctct    | attctgtagt  | 2220 |
| gctgtacatt  | tttgttcctt  | tgtggaatgt | gttgcattgt  | ctccagtgtt    | tgtgtattta  | 2280 |
| taatcttatt  | tgcattcatga | tgatggaaaa | agtttgtgtaa | ataaaaaataa   | ttaaatgagc  | 2340 |
| aggaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | a             |             | 2381 |

<210> 678

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1212)..(1212)

<223> n equals a,t,g, or c

<400> 678

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| cccgcagcag  | ctcccaggat  | gaactgggtg | cagtggctgc | tgctctgcg   | ggggcgctga  | 60   |
| gaggacacga  | gctctatgcc  | tttccggctg | ctcatcccgc | tcggcctcct  | gtgcgcgctg  | 120  |
| ctgcctcagc  | accatgggtg  | gccagggtcc | gacggctccg | cgccagatcc  | cgcccactac  | 180  |
| agggagcgag  | tcaaggccat  | gttctaccac | gcctacgaca | gctaccctga  | gaatgccttt  | 240  |
| cccttcgatg  | agctgcgacc  | tctcacctgt | gacgggcacg | acacctgggg  | cagtttttct  | 300  |
| ctgactctaa  | ttgatgcact  | ggacaccttg | ctgatttttg | ggaatgtctc  | agaattccaa  | 360  |
| agagtgggtg  | aagtgcctcca | ggacagcgtg | gactttgata | ttgatgtgaa  | cgctctgtg   | 420  |
| tttgaacaa   | acattcgagt  | ggtaggagga | ctcctgtctg | ctcatctgct  | ctccaagaag  | 480  |
| gctgggggtg  | aagtagaggc  | tggatggccc | tgttccgggc | ctctcctgag  | aatggctgag  | 540  |
| gaggcggccc  | gaaaactcct  | cccagccttt | cagaccccca | ctggcatgcc  | atatggaaca  | 600  |
| gtgaacttac  | ttcatggcgt  | gaacccagga | gagaccctg  | tcacctgtac  | ggcagggatt  | 660  |
| gggaccttca  | ttgttgaaat  | tgccaccctg | agcagcctca | ctggtgaccc  | ggtgttcgaa  | 720  |
| gatgtggcca  | gagtggcttt  | gatgcgcctc | tgggagagcc | ggtcagatat  | cgggctggct  | 780  |
| ggcaaccaca  | ttgatgtgct  | cactggcaag | gggtggccca | ggacgcaggc  | atcggggctg  | 840  |
| gctgggactc  | ctactttgag  | tacttgggtg | aaagagccat | cctgcttyag  | gataaagaag  | 900  |
| tcattggccat | gttccttagag | tataacaaag | ccatccggaa | ctacacccgc  | ttcgatgact  | 960  |
| ggtacctgtg  | ggttcagatg  | tacaagggga | ctgtgtccat | gccagtcttc  | cagtccttgg  | 1020 |
| aggcctactg  | gcctggctct  | cagagcctca | ttggagacat | tgacaatgcc  | atgaggacct  | 1080 |
| tcctcaacta  | ctacactgta  | tggaaagcag | ttgggggggt | cccgggaattc | tacaacattc  | 1140 |
| ctcagggata  | cacagtggag  | aagcgagagg | gctaccact  | tcggccagaa  | cttattgaaa  | 1200 |
| gcgcaatgta  | cntctaccgt  | gccacggggg | atcccacct  | cctagaactc  | ggaagagatg  | 1260 |
| ctgtggaatc  | cattgaaaaa  | atcagcaagg | tggagtgcgg | atttgcaaca  | atcaaagatc  | 1320 |
| tgcgagacca  | caagctggac  | aaccgcatgg | agtcgttctt | cctggccgag  | actgtgaaat  | 1380 |
| acctctacct  | cctgtttgac  | ccaaccaact | tcattccaca | caatgggtcc  | accttcgacg  | 1440 |
| cggtgatcac  | cccctatggg  | gagtgcattc | tgggggctgg | ggggtacatc  | ttcaacaagg  | 1500 |
| aagctcacc   | catcgaccct  | gccgccttgc | actgctgcca | gaggctgaag  | gaagagcagt  | 1560 |
| gggaggtgga  | ggacttgatg  | agggaattct | actctctcaa | acggagcagg  | tcgaaatttc  | 1620 |
| agaaaaacac  | tgtagttcg   | gggccatggg | aacctccagc | aaggccagga  | acactcttct  | 1680 |
| caccagaaaa  | ccatgaccag  | gcaagggaga | ggaagcctgc | caaacagaag  | gtcccacttc  | 1740 |
| tcagctgccc  | cagtcagccc  | ttcacctcca | agttggcatt | actgggacag  | gttttccctag | 1800 |
| actcctcata  | accactggat  | aattttttta | tttttatttt | tttgaggcta  | aactataata  | 1860 |
| aattgctttt  | ggctatcaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1920 |
| agggcgggccg | c           |            |            |             |             | 1931 |

<210> 679

<211> 1517

<212> DNA

<213> Homo sapiens

<400> 679

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| gggtcgaccc  | acgcgtccgc  | tcgctgcggc | ggcgactgag | ccaggctggg | ccgcgtccct  | 60   |
| gagtcgccaga | gtcggcgcg   | gcggcaggg  | gcagccttcc | accacgggga | gccagctgt   | 120  |
| cagccgcctc  | acaggaagat  | gctgcgtcgg | cggggcagcc | ctggcatggg | tgtgcatgtg  | 180  |
| ggtgcagccc  | tgaggagcact | gtggttctgc | ctcacaggag | ccctggaggt | ccaggctccct | 240  |
| gaagacccag  | tggtggcact  | ggtgggcacc | gatgccaccc | tgtgctgctc | ctctccct    | 300  |
| gagcctggct  | tcagcctggc  | acagctcaac | ctcatctggc | agctgacaga | taccaaacag  | 360  |
| ctggtgcaca  | gctttgctga  | gggccaggac | cagggcagcg | cctatgccaa | ccgcacggcc  | 420  |
| ctcttcccg   | acctgctggc  | acagggcaac | gcctccctga | ggctgcagcg | cgtgcgtgtg  | 480  |
| gcggacgagg  | gcagcttcac  | ctgcttcgtg | agcatccggg | atttcggcag | cgtgccgtc   | 540  |
| agcctgcagg  | tgccgctcc   | ctactcgaag | cccagcatga | ccctggagcc | caacaaggac  | 600  |
| ctgcggcccg  | gggacacggt  | gaccatcacg | tgtctcagct | accagggcta | ccctgaggct  | 660  |
| gaggtgttct  | ggcaggatgg  | gcagggtgtg | cccctgactg | gcaacgac   | cacgtcgcag  | 720  |
| atggccaacg  | agcagggtct  | gtttgatgtg | cacagcatcc | tgcggtgtgt | gctgggtgca  | 780  |
| aatggcacct  | acagctgcct  | ggtgcgcaac | cccgctgtgc | agcaggatgc | gcacagctct  | 840  |
| gtcaccatca  | cagggcagcc  | tatgacattc | ccccagagg  | ccctgtgggt | gaccgtgggg  | 900  |
| ctctctgtct  | gtctcattgc  | actgtcgttg | gccctggctt | tcgtgtgctg | gagaaagatc  | 960  |
| aaacagagct  | gtgaggagga  | gaatgcagga | cccgagacc  | aggatgggga | gggacaaggc  | 1020 |
| tccaagacag  | ccctgcagcc  | tctgaaacac | tctgacagca | aagaagatga | tggaacaaga  | 1080 |
| atagcctgac  | catgaggacc  | agggagctgc | taccctccc  | acagctcct  | accctctggc  | 1140 |
| tgcaatgggg  | ctgcaactgt  | agccctgcc  | ccaacagatg | catcctgctc | tgacaggtgg  | 1200 |
| gctccttctc  | caaaggatgc  | gatacacaga | ccactgtgca | gccttatttc | tccaatggac  | 1260 |
| atgattccca  | agtcactcct  | ctgccttttt | ttcttataga | cacaatgaac | agaccacca   | 1320 |
| caaccttagt  | tctctaagtc  | atcctgcttg | ctgccttatt | tcacagtaca | tacatttctt  | 1380 |
| agggacacag  | tacactgacc  | acatcaccac | cctcttcttc | cagtgcgtcg | tggaccatct  | 1440 |
| ggctgccttt  | tttctccaaa  | agatgcaata | ttcagactga | ctgacccct  | gccttatttc  | 1500 |
| accaaagaca  | cgatgca     |            |            |            |             | 1517 |

<210> 680

<211> 2751

<212> DNA

<213> Homo sapiens

<400> 680

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| taaccctcac  | taaaggaac  | aaaagctgga | gtccaccgc  | ggtggcgcc   | gctctagaac | 60   |
| tagtggatcc  | ccgggctgc  | aggaattcgg | cacgagtaga | gccgatctcc  | cgcccccgga | 120  |
| ggttgctcct  | ctccgaggtc | tcccggggcc | caagttctcc | gcgccccgag  | gtctccgcgc | 180  |
| cccgaggtct  | ccgcggcccg | aggtctccgc | ccgcaccatg | cggctgggca  | gtcctggact | 240  |
| gctcttccctg | ctcttcagca | gccttcgagc | tgatactcag | gagaagggaag | tcagagcgat | 300  |
| ggtaggcagc  | gacgtggagc | tcagctgcgc | ttgcctgaa  | ggaagccgtt  | ttgatttaaa | 360  |
| tgatgtttac  | gtatattggc | aaaccagtga | gtcgaaaacc | gtggtgacct  | accacatccc | 420  |
| acagaacagc  | tccttggaag | acgtggacag | ccgctaccgg | aaccgagccc  | tgatgtcacc | 480  |
| ggccggcatg  | ctgcggggcg | acttctccct | gcgcttgctc | aacgtcacc   | cccaggacga | 540  |
| gcagaagttt  | cactgcctgg | tggtgagcca | atccctggga | ttccaggagg  | ttttgagcrt | 600  |
| tgaggttaca  | ctgcatgtgg | cagcaaaact | cagcgtgccc | gtcgtcagcg  | ccccccacag | 660  |
| cccctcccag  | gatgagctca | ccttcacgtg | tacatccata | aacggctacc  | ccaggcccaa | 720  |
| cgtgtactgg  | atcaataaga | cggacaacag | cctgctggac | caggctctgc  | agaatgacac | 780  |
| cgtcttcttg  | aacatgcggg | gcttgataga | cgtggtcagc | gtgctgagga  | tcgcacggac | 840  |
| ccccagcgtg  | aacattggct | gctgcataga | gaacgtgctt | ctgcagcaga  | acctgactgt | 900  |
| cggcagccag  | acaggaaatg | acatcgga   | gagagacaag | atcacagaga  | atccagtcag | 960  |
| taccggcgag  | aaaaacgcgg | ccacgtggag | catcctggct | gtcctgtgcc  | tgcttgtggg | 1020 |
| cgtggcggtg  | gccataggct | gggtgtgcag | ggaccgatgc | ctccaacaca  | gctatgcagg | 1080 |
| tgccctgggt  | gtgagtcggg | agacagagct | cactggccac | gtttgaccgg  | agctcaccgc | 1140 |
| ccagagcgtg  | gacagggctt | ccatgagacg | ccaccgtgag | aggccaggtg  | gcagcttgag | 1200 |
| catggactcc  | cagactgcag | gggagcactt | ggggcagccc | ccagaaggac  | cactgctgga | 1260 |

|            |            |            |             |             |             |      |
|------------|------------|------------|-------------|-------------|-------------|------|
| tcccagggag | aacctgctgg | cgttggctgt | gacccctggaa | tgaggccctt  | tcaaaagcgt  | 1320 |
| catccacacc | aaaggcaa   | gtccccaagt | gagtgggctc  | cccgtgtca   | ctgcagtca   | 1380 |
| cccacaggaa | gggactggtg | atgggctgtc | tctaccgga   | gcgtgcgga   | ttcagcacca  | 1440 |
| ggctcttccc | agtaccccag | acccactgtg | ggtcttccc   | tggtatgagg  | gacccctgaga | 1500 |
| ccgaagggtg | tttggtttaa | aaagaagact | gggcgtccgc  | tcttccagga  | cggcctctgt  | 1560 |
| gctgctgggg | tcacgcgagg | ctggttgca  | gggacacggg  | cacaggagct  | cttctgccct  | 1620 |
| gaacgctccc | aacctgcctc | ccgcccga   | gccacaggac  | ccactcatgt  | gtgtgcccac  | 1680 |
| aagtgtagtt | agccgtccac | accgaggagc | ccccggaagt  | ccccactggg  | cttcagtgtc  | 1740 |
| ctctgccaca | ttccctggga | ggaacaatgt | ccctcggctg  | ttccggtgaaa | agttgagcc   | 1800 |
| acctttggaa | gacgcacggg | tggagtttgc | cagaagaaag  | gctgtgccag  | ggccgtgttt  | 1860 |
| ggctacaggg | gctgcccggg | ctcttggtc  | tgcagcgaga  | aagacacagc  | ccagcagggc  | 1920 |
| tggagacgcc | catgtccagc | aggcgcaggc | ctggcaacac  | ggtccccaga  | gtcctgagca  | 1980 |
| gcagttaggt | gcatggagag | ggtatcacct | ggtggccaca  | gtcccccttc  | tcacctcagc  | 2040 |
| aatgatcccc | aaagtgagag | gtggctcccc | cggccccac   | caccctcagc  | agccccaccc  | 2100 |
| cactcaaccc | tgagggtccc | cagggtcctg | atgaagacct  | ccgaccccag  | cgcagggtc   | 2160 |
| ctcggagccc | aacagtccca | agggggcagg | agacgggggtg | gtcagtgtc   | gaggggtaca  | 2220 |
| gccctggggc | ctgaccagcc | ccggcacctg | ccatgctggt  | tcccggaatg  | aatcagctgc  | 2280 |
| tgactgtctc | cagaagggtc | ggaaaggatg | ctgccagggtg | acccgagggtg | cactcgcccc  | 2340 |
| aggagatgg  | agtagacagc | ctggcctggc | cctcgggaca  | cattgtctgc  | cccgggrcta  | 2400 |
| tgggcaaag  | cccctccttc | ttacttccca | gaatcccctg  | acattcccag  | ggtcagccag  | 2460 |
| gacctgttac | agccctggtc | acttggaact | gacagctgtg  | tgaggcctgc  | acttctcaga  | 2520 |
| cccagactta | gaacaaaagg | aggagtggag | actcaagggt  | acaatgaggt  | tccagtactt  | 2580 |
| gttacaagaa | attgggtttc | tgcaaaaaaa | gtccctac    | grgccttttag | gtgaatgtgg  | 2640 |
| gatccactcc | cgcttttaac | atgaaagcat | tagaagatgt  | gtggtgttta  | taaaaraaaa  | 2700 |
| aaaaaaaaaa | ctcgaggggg | ggcccgtacg | ggaattcgcc  | ctatagttag  | t           | 2751 |

<210> 681  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gtgagaagat | aatcctgaga | ggctgcatcc | tgagaaatac | cagctggtgt  | tttggaatgg | 60  |
| ttatttttgc | aggtcctgac | actaaactaa | tgcagaatag | tggttaagaca | aagtttaaaa | 120 |
| ggacaagcat | tgatagattg | atgaatactc | tagtactatg | gatttttggg  | tttctgatat | 180 |
| gcttgggaat | tattcttgca | ataggaaatt | caatctggg  | gagtcaaact  | ggggaccaat | 240 |
| tcagaacttt | cctcttttgg | aatgaaggag | agaagagctc | tgtgttctcc  | ggattcttaa | 300 |
| cattctggtc | atatattatt | attctcaata | cagttgtacc | catttcctta  | tatgtgagtg | 360 |
| tggaagtaat | tcgtctagga | cacagttatt | ttataaactg | ggaccggaag  | atgtattaty | 420 |
| ctcgaaaagc | aatacctgca | gtggctcgaa | cgaccacgct | caatgagg    |            | 468 |

<210> 682  
 <211> 181  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (178)..(178)  
 <223> n equals a,t,g, or c

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggtcagtgtg | cagatagcct | tggataccag | ktactgact   | ttcattaatc | acgtcttcat | 60  |
| ctgggggagc | attgccattt | atttctccat | tttattttaca | atgcacagta | atggcatctt | 120 |
| tggcatcttc | ccaaaccagt | ttccatttgt | tggtaatgca  | cgacattccc | tgaccanana | 180 |
| g          |            |            |             |            |            | 181 |

<210> 683  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (47)..(47)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (534)..(534)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (537)..(537)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (563)..(563)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (565)..(565)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (591)..(591)  
 <223> n equals a,t,g, or c

<400> 683  
 cagtctgggc ttaagaaacc accagaagaa cccaaaccag aaatgcncaa gtgtaaatgc 60  
 aaaaattctt atagaagaaa tagcataaga atttgcacat tcggaaataa gaccaccttc 120  
 catgaacaag gagaagcctt tggagatatc taaactgtgc aaatgaatag tcgctggcta 180  
 agactgcttg caatcctcc tggccgctga tgccaacacc aatgtgagca cttttaatca 240  
 tgctgacatc attggctcca tcwccaatgg ccaaagtaac agcatttctg tacttcttca 300  
 ccagctctac cacttgggct ttctggagtg gagtgaccct gcagcaaatt acagtcttac 360  
 acatgcaagc aagttctagg agatcattct tgacatcact ttctaggca tgagccaaac 420  
 tgtggccatt tatgattaag gcataatctc ctgttatggg ttcttctaca atagaatcca 480  
 actccagctg ctgctttttt tcacaaacta catggccatt ggaaaaattt ctgnttngtc 540  
 caaacaatt ttgttttgaa atnangagtt cttctctcac ttccacagca nttattccct 600  
 gctataggga gg 612

<210> 684  
 <211> 1024  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (29)..(29)  
 <223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (986)..(986)
<223> n equals a,t,g, or c

<400> 684
tgctttcctg agttcttctc tcacttcenc agcattattc cctgctatcc caaacmcatc      60
attcatgtcg tcagtcagca tgttgcaggc ataaccgatg ttgatgscag tttcttggtt      120
gtctcctgtt aggaccaga tcttaatat ggctagtgat aaacttgtaa ctgtttcaat      180
aacacctcc tgtaacttat ctctacagc agtggcacct agtagcatca aatctctttc      240
aatttcttca tatagcccag ctattcgttc atccctctct tctgtggcaa cattcgcatc      300
ttcaagcatc ttatgccact ctttaaagta cttgtcatcc aggtctctgt atgcgattggc      360
caaggtccga aggccttccc ctgcaaattc actgagggg tctgacgtca aagacaaaag      420
gacttcattg gaaggatsaa gtttctcaaa cagaatagta tctgctcctt tggataaaag      480
ctttatctgt ccttctgggt ttcgarctat gacagacatc ctttttctgg tgttggtgaa      540
atccaaaaag gcaagtaatt gataagtaac tagtggtccc aattcttcta ttgttatggt      600
ctctggggtc cgggatttaa aratgaaccc aaaatttcta gcggcagtc ctagagcccc      660
ttcatcaggt gactgaactt ggtaaatacag ctctcctgcg ctattctctt ctgacattac      720
agtgtggcag agagcaagta acctaaggaa ttcataaact ttgggatcac ccattttaat      780
ggattccatc agattgtggt caaagaactg aattctcta tccgcttgag atttgactga      840
gaaatccaca ggctcttttt cctgagttat ttctgtcttc tgatccaggt catcatgtac      900
ttcaccatag attctcccat taatggaaca tcttttaaag gtcatgatgt tttgagttag      960
ggtaccggtt ttgtcggaga aaatgnactc aatctgcccc agttcttcat tgagcgtggt     1020
cggt                                           1024

<210> 685
<211> 366
<212> DNA
<213> Homo sapiens

<400> 685
gacgcgtggg agctcattat ccatcaaact cactcargtg wcacytgagt gagtttgatg      60
gataatgagc taatgtgata tctataggtc aaattttttt aaaacaaaaa ttttcaagtc      120
tggtgataatc tttcctaaat gggatcaaat gaaataatat gtgtaaaaga gtcaaatgca      180
gtcctttacc atagtaactg cctatggacg ttgtctttcc cttacatgcc tgcctacact      240
taaccagatg ttggttttca agtctaattt gtcattagtt tcaccacatt kgctcacttt      300
tkgtaacatt tttgcaagat ttgaaaactt tcagtaaagt ttttggcact attggtaaaa      360
aaaaaa                                           366

<210> 686
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (371)..(371)
<223> n equals a,t,g, or c

<400> 686
cctgggttagg gtcctacagg gaaataaaaat tataaccgtg gaggtacatt tctctaccag      60
aaagcaaaaaa taaagcatca tgtcttaatg gttttctaca aatcaacttc taattctaca      120
gagtccttaa tctggtccct attaaattct tggtcagaca aagttacatt tcccaagaga      180
gtcaggtgac acttgagtga gtttgatgga taatgagcta atgtgatatc tataggtcac      240
aatttttttaa aaccaaaatt ttcaagtctg ggataatctt tcctaaatgg gatcaaatga      300
aataatatgt gtaaaagagt caaatgcagt cttttacat agtaactgcc tatggacgtt      360

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|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtctttccct | nacatgcctg | cctacactta | accagatggt | ggttttcaat | gtctaatttg | 420 |
| tcattagttt | caccacattt | gctcactttt | tgtaacattt | ttgcaagatt | tgaaaacttt | 480 |
| cagtaaatgt | tttggcacta | ttggtaaaaa | aaaaaaaaa  |            |            | 519 |

<210> 687  
 <211> 1867  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |             |            |             |      |
|-------------|-------------|------------|-------------|------------|-------------|------|
| <400> 687   |             |            |             |            |             |      |
| cccacgcgtc  | cggggccacag | cagagacagt | ggagggcagt  | ggagaggacc | gcgctgtcct  | 60   |
| gctgtcacca  | agagctggag  | acaccatctc | ccaccgagag  | tcattggccc | attggccctg  | 120  |
| cacctcctcg  | tcctcgtccc  | catcctcctc | agcctgggtg  | cctcccagga | ctggaaggct  | 180  |
| gaacgcagcc  | aagacccctt  | cgagaaatgc | atgcaggatc  | ctgactatga | gcagctgtct  | 240  |
| aagggtggtga | cctgggggct  | caatcggacc | ctgaagcccc  | agagggtgat | tgtggttggc  | 300  |
| gctggtgtgg  | ccgggctggt  | ggccgccaag | gtgctcagcg  | atgetggaca | caaggtcacc  | 360  |
| atcctggagg  | cagataacag  | gatcgggggc | cgcattcttca | cctaccggga | ccgaacacg   | 420  |
| ggctggattg  | gggagctggg  | agccatgcgc | atgcccagct  | ctcacaggat | cctccacaag  | 480  |
| ctctgccagc  | gcctggggct  | caacctgacc | aagttcacc   | agtacgaca  | gaacacgtgg  | 540  |
| acggaggtgc  | acgaagtga   | gctgcgcaac | tatgtggtgg  | agaagggtgc | cgagaagctg  | 600  |
| ggctacgcct  | tgcgtccca   | ggaaaagggc | cactcgcccc  | aagacatcta | ccagatggct  | 660  |
| ctcaaccagg  | ccctcaaaga  | cctcaaggca | ctgggctgca  | gaaaggcgat | gaagaagttt  | 720  |
| gaaaggcaca  | cgctcttgga  | atatcttctc | ggggagggga  | acctgagccg | gccggccgtg  | 780  |
| cagcttcttg  | gagacgtgat  | gtccgaggat | ggcttcttct  | atctcagtt  | cgccgaggcc  | 840  |
| ctccgggccc  | acagctgcct  | cagcgacaga | ctccagtaca  | gccgcatcgt | gggtggctgg  | 900  |
| gacctgctgc  | cgcgcgcgct  | gctgagctcg | ctgtccgggc  | ttgtgctggt | gaacgcgccc  | 960  |
| gtggtggcga  | tgaccaggg   | accgcacgat | gtgcacgtgc  | agatcgagac | ctctccccc   | 1020 |
| gcgcggaatc  | tgaagggtgct | gaaggccgac | gtggtgctgc  | tgacggcgag | cggaccggcg  | 1080 |
| gtgaagcgca  | tcaccttctc  | gccgccgctg | ccccgccaca  | tgcaggaggc | gctgcggagg  | 1140 |
| ctgcactacg  | tgccggccac  | caagggtgtc | ctaagcttcc  | gcaggccctt | ctggcgcgag  | 1200 |
| gagcacattg  | aaggcggcca  | ctcaaacacc | gatcgcccgt  | cgccatgat  | tttctacccg  | 1260 |
| ccgccgcgcg  | agggcgcgct  | gctgctggcc | tcgtacacgt  | ggtcggacgc | ggcggcagcg  | 1320 |
| ttcgccggct  | tgagccggga  | agaggcggtg | cgcttggcgc  | tcgacgacgt | ggcggcattg  | 1380 |
| cacgggcctg  | tcgtgcgcca  | gctctgggac | ggcacggcg   | tcgtcaagcg | ttgggcggag  | 1440 |
| gaccagcaca  | gccagggtgg  | ctttgtggta | cagccgcggg  | cgctctggca | aaccgaaaag  | 1500 |
| gatgactgga  | cggtccctta  | tggccgcata | tactttgccc  | gcgagcacac | cgccctacccg | 1560 |
| cacggctggg  | tggagacggc  | ggtcaagttg | ctgcgcgccg  | ccatcaagat | caacagccgg  | 1620 |
| aaggggcctg  | catcgacac   | ggccagcccc | gaggggacg   | catctgacat | ggaggggcag  | 1680 |
| gggcatgtgc  | atggggtggc  | cagcagcccc | tcgcatgacc  | tggcaaagga | agaaggcagc  | 1740 |
| caccctccag  | tccaaggcca  | gttatctctc | caaaacacga  | cccacacgag | gacctcgcat  | 1800 |
| taaagtattt  | tcggaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | 1860 |
| aaaaaaa     |             |            |             |            |             | 1867 |

<210> 688  
 <211> 1722  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (401)..(401)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (695)..(695)  
 <223> n equals a,t,g, or c



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<400> 688
gggaccgcgc tgtcctgctg tcaccaagag ctggagacac catctccac cgagagtcac 60
ggccccattg gccctgcacc tctctgtcct cgtccccatc ctctcagcc tgggtggcctc 120
ccaggactgg aaggctgaac gcagccaaga ccccttcgag aaatgcatgc aggatcctga 180
ctatgagcag ctgctcaagg tcaccatcct ggaggcagat aacaggatcg ggggccgcat 240
cttcacctac cgggaccaga wyacgggctg gattggggag ctgggagcca tgcgcatgcc 300
cagctctcac aggatcctcc acaagctctg ccagggcctg gggctcaacc tgaccaagtt 360
caccagtac gacaagaaca cgtgacgga ggtgcacgaa ntgaagctgc gcaactatgt 420
ggtggagaag gtgcccgaga agctgggcta cgccttgcgt cccaggaata agggccactc 480
gcccgaagac atctaccaga tggctctcaa ccaggccctc aaagacctca aggcactggg 540
ctgcagaaaag gcgatgaaga agtttgaaaag gcacacgctc ttggaatac ttctcggga 600
ggggaacctg agccggccgg ccgtgcagct tctgggagac gtgatgtccg aggatggctt 660
cttctatctc agcttcgccc aggccctccg ggccnacagc tgctcagcg acagactcca 720
gtacagccgc atcgtgggtg gctgggacct gctgccgcgc gcgctgctga gctcgtgtc 780
cgggcttgtg ctgttgaacg cggccgtggt ggcgatgacc cagggaccgc acgatgtgca 840
cgtgcagatc gagacctctc ccccgccgcg gaatctgaag gtgctgaagg ccgacgtgg 900
gctgctgacg gcgagcggac cggcggtgaa gcgcatcacc ttctcgccgc gctgccccgc 960
cacatgcagg aggcgctgcg gaggtgcac tacgtgccgc ccaccaaggtgttcctaagc 1020
ttccgcaggc ctttctggcg cgaggagcac attgaaggcg gccactcaaa caccgatcg 1080
ccgtccgcgc tgattttcta cccgccggcg cgcgaggcg cgctgctgct ggccctgtac 1140
acgtgggtcg acgcggcggc agcgttcgcc ggcttgagcc gggaagaggc gttgcgcttg 1200
gcgctcgacg acgtggcggc attgcacggg cctgtcgtgc gccagctctg ggacggcacc 1260
ggcgtcgtca agcgttgggc ggaggaccag cacagccagg gtggctttgt ggtacagmcg 1320
ccggcgctct ggcaaaccga aaaggatgac tggacggtcc cttatggccg catctacttt 1380
gccggcgagc acaccgccta cccgcacggc tgggtggaga cggcgtcaa gtcggcgctg 1440
cgcgccgcca tcaagatcaa cagccggaag gggcctgcac cggacacggc cagccccgag 1500
gggcacgcac ctgacatgga ggggcagggg catgtgcatg ggggtggccag cagccccctg 1560
catgacctgg caaaggaaga aggcagccac cctccagtcc aaggccagtt atctctccaa 1620
aacacgaccc acacgaggac ctcgcattaa agtattttcg gaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg cc 1722

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<210> 689

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (508)..(508)

<223> n equals a,t,g, or c

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<400> 689
ggtcgaccca cgcgtccgcc cagcgtccg gcttccttaa tgtaatttaa accctggcaa 60
acattcttta gaaaccaaga ggaaagaaag aacaaatata aaaaaagaca tagaatttaa 120
tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
gtcatctgat ttcccttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt 240
tttcagggga gcggaatatt ggtttctttt acttgttgtt ttcagttttc tctgccattc 300
atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac 360
caaaactgtaa ctgagtacag tggatcgttt tctgttga tgtaaatatt atacaatgaa 420
atctataaag tgttgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
ggtattgatc aaaaaaaaaa aaaaaaanc cggggggggc cccggaacct aatccc 536

```

<210> 690

<211> 397

<212> DNA

<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (322)..(322)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (394)..(394)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (397)..(397)  
 <223> n equals a,t,g, or c

<400> 690  
 gtttgcgagc ggctggaacc agacggtgac gatagaggaa gcgggctcca tggctgccct 60  
 cctgctgctg cccctgctgc tgttgctacc gctgctgctg ctgaagctac acctctggcc 120  
 gcagttgcgc tggcttcggc cggacttggc ctttgcggtg cgagctctgt gctgcaaaag 180  
 ggctcttcga gctcgcgccc tggccgcggc tgccgcgcgac ccggaaggta ccgagggggg 240  
 ctgcagcctg gcctggcgcc tcgcggaact ggcccagcag cgcgcggaac ttttattacg 300  
 gtcgcgcgct ttagctactc anaggcggag cgcgagagta acaggctgac gcgccttcct 360  
 acgtgcgcta ggctgggact ggggacccga cggnggn 397

<210> 691  
 <211> 716  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (630)..(630)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (710)..(710)  
 <223> n equals a,t,g, or c

<400> 691  
 gcctcagcgg ccggggccac ggccccgagc agccatgctg ggcgcgcggg cctgttggg 60  
 ccgcgtcctt ctgctgcccc gcgcgggtgc aggcctcgcc gcragccgca ggtgtcctgg 120  
 agtctggccc aggacctggc cccacaggag tcccagcagg ggtagctcct cccgggacaa 180  
 ggaccgaagt gcgacggtca gtagttcagt gcccatgcct gctggaggga aaggaagcca 240  
 tccttcatct acaccccaga gggcccccaa ccgcctgac cagcagaagt caccatacct 300  
 cctacaacat gcctacaatc ctgtggactg gtaccctctg ggacaggaag ccttcgacaa 360  
 ggccaggaag gaaaacaagc cgattttcct ctcagtcggg tactccacct gccactggtg 420  
 ccacatgatg gaagaggagt ccttcagaa tgaggagatt ggccgcctg tcagtggagg 480  
 ctttgtgagt gtgaaggtag accgtgagga gcggcctgac gtggacaagg tgtacatgac 540  
 gttcgtgcag gccaccagca gcggcggggg ctggcccatg aatgtgtggc tgactcccaa 600  
 cctccagccc tttgtcgggg gcactatttn cctcctgaag gatggcttga mccgagtsgg 660  
 ttccgcacag tgttkctgag aatacgagaa cartggaaac agaacaagan caccct 716

<210> 692  
 <211> 2716  
 <212> DNA

<213> Homo sapiens

<400> 692

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| ggccgggccc  | acggcmccga | gcagccatgc  | tggggcgcg   | ggcctggttg  | ggccgcgtcc  | 60   |
| ttctgctgcc  | ccgcgccggt | gcaggcctcg  | ccgcgagccg  | caggtctgc   | tgcagtccca  | 120  |
| cttccaggct  | gaactccctg | aggtctctga  | ttccctagggt | gtcctggagt  | ctggcccagg  | 180  |
| acctggcccc  | acaggagtcc | cagcaggggt  | agctcctccc  | gggacaagga  | ccgaagtgcg  | 240  |
| acggtcagta  | gttcagtgcc | catgcctgct  | ggagggaaag  | gaagccatcc  | ttcatctaca  | 300  |
| ccccagaggk  | tccccaaccg | cctgatccac  | gagaagtcac  | catacctcct  | acaacatgcc  | 360  |
| tacaatcctg  | tggactggta | cccctgggga  | saggaagcct  | tygacaaggc  | caggaaggaa  | 420  |
| aacaagccga  | ttttcctctc | agtcgggtac  | tccacctgcc  | actggtgcca  | catgatggaa  | 480  |
| gaggagtcca  | tccagattga | ggagattggc  | cgctgctca   | ggaggactt   | tgtgagtgtg  | 540  |
| aaggtagacc  | gtgaggagcg | gcctgacgtg  | gacaaggtgt  | acatgacgtt  | cgtgcaggcc  | 600  |
| accagcagcg  | gcgggggctg | gcccattgaat | gtgtggctga  | ctcccaacct  | ccagcccttt  | 660  |
| gtcgggggca  | cctatttccc | tcctgaggat  | ggcttgacct  | gagtcggctt  | ccgcacagtg  | 720  |
| ttgctgagaa  | tacgagaaca | gtggaacag   | aacaagaaca  | ccctgctaga  | aaatagccag  | 780  |
| cgtgtcacca  | ctgccctgct | ggcccgatca  | gagatcagcg  | tgggtgaccg  | ccagctgccg  | 840  |
| ccctctgccg  | ccaccgtgaa | caatcgctgc  | ttccagcagc  | tggatgaggg  | ctatgatgag  | 900  |
| gaatacgggt  | gcttcgctga | ggccccaaag  | tttcccagc   | cggtgatcct  | gagcttcctg  | 960  |
| ttctcctact  | ggctcagcca | tcgactgact  | caggatgggt  | ctcggggcca  | gcagatggcc  | 1020 |
| ttgcataccc  | tgaatatgat | ggctaaccgg  | ggcatccggg  | accatgtggg  | gcagggcttt  | 1080 |
| caccgctact  | ccacagaccg | ccagtggcac  | gtccctcact  | ttgagaagat  | gctctatgac  | 1140 |
| caggcacagc  | tcgctgtggc | ctattcgcag  | gccttccagc  | tctctggtga  | tgaattctac  | 1200 |
| tctgacgtgg  | ccaaaggcat | cctgcagtac  | gtggctcgga  | gcctgagcca  | ccggtccgga  | 1260 |
| ggcttctata  | gcgcagarga | tgcagactcg  | ccccagagc   | ggggccagcg  | gccccaaagag | 1320 |
| ggcgctact   | atgtgtggac | ggtcaaagag  | gtcagcagc   | tcctcccga   | gcctgtgttg  | 1380 |
| ggtgccaccg  | agccgctgac | ctcaggccag  | ctcctcatga  | agcactacgg  | cctcacagag  | 1440 |
| gctggttaaca | tcagccccag | tcaggacccc  | aagggggagc  | tgcagggcca  | gaatgtgctg  | 1500 |
| accgtccggt  | actcgctgga | gctgactgct  | gcccgttttg  | gcttggatgt  | ggaggccgtg  | 1560 |
| cggaccttgc  | tcaattcagg | gctggagaag  | ctcttccagg  | cccggaaagca | tcggcccaag  | 1620 |
| ccgcacctgg  | acagcaagat | gctggctgcc  | tggaatggct  | tgatggtgtc  | aggctatgct  | 1680 |
| gtgactgggg  | ctgtcctggg | ccaagacagg  | ctgatcaact  | atgccacca   | tggtgccaa   | 1740 |
| ttcctgaagc  | ggcacatggt | tgatgtggcc  | agtggccgcc  | tgatgcggac  | ctgctacacc  | 1800 |
| ggccctgggg  | ggactgtgga | gcacagcaac  | ccacctgtct  | ggggcttcc   | ggaggactac  | 1860 |
| gccttcgtgg  | tgcggggcct | gctggacctg  | tatgaggcct  | cacaggagag  | tgcgtggctc  | 1920 |
| gagtgggctc  | tgcggctgca | ggacacacag  | gacaggctct  | tttgggactc  | ccagggtgc   | 1980 |
| ggctacttct  | gcagtgaggc | tgagctgggg  | gctggcctgc  | ccctgcgtct  | gaaggacgac  | 2040 |
| caggatggag  | cagagcccag | cgccaattcc  | gtgtcagccc  | acaacctgct  | ccggctgcat  | 2100 |
| ggcttcacgg  | gccacaagga | ctggatggac  | aagtgtgtgt  | gcctattgac  | cgctttttcc  | 2160 |
| gagcgcatgc  | gtcgtgtccc | ggtggcggtg  | cccgagatgg  | tcgcgcctct  | ctcagcccag  | 2220 |
| cagcagaccc  | tcaagcagat | cgtgatctgt  | ggagaccgtc  | aggccaagga  | caccaaggcc  | 2280 |
| ctggtgcagt  | gcgtccactc | tgtctacatt  | cctaacaagg  | tgtctgattct | ggctgatggg  | 2340 |
| gacccctcga  | gcttctctgt | ccgccagctg  | cctttcctga  | gtacctccg   | aggtttgaa   | 2400 |
| gaccaggcca  | ctgcatatgt | gtgtgagaat  | caagcctgct  | cagtgcccat  | cactgatccc  | 2460 |
| tgcgaattac  | gaaaactact | acatccatga  | ctgccccaac  | ccccttgggg  | tggggcagaa  | 2520 |
| ggtgaagcat  | cccaactgac | tagagactca  | ggccctgcag  | ggccctatag  | aacctgtggc  | 2580 |
| catccctgag  | cacctgcca  | ccaggtgacc  | tcggccatac  | tcactgcccc  | ccttgggcac  | 2640 |
| ccactcacc   | tagaataaac | ttaacagtgt  | cccggtgtaa  | aaaaaaaaa   | aaaaaaaaa   | 2700 |
| aaaaaagggc  | ggccgc     |             |             |             |             | 2716 |

<210> 693

<211> 427

<212> DNA

<213> Homo sapiens

<400> 693

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| ccacgcgtcc | ggtgggctca | ctgttgggct | ccagcctagt | ggcactgctg | tccttgcccc | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggggctggct | gcactgcccc | aaggactttg | ggaacatcaa | caattgccgg | atggacctct | 120 |
| acttcttcct | gctggctggc | attcaggccg | tcacggctct | cctatttgtc | tggatcgctg | 180 |
| gacgctatga | gagggggtcc | cagggcccag | cctcccacag | cgttttcagc | agggacaggg | 240 |
| gctgaacagg | ccctattcca | gcccccttgc | ttcactctac | cggacagacg | gcagcagtc  | 300 |
| cagctctggg | ttccttctcg | gtttattctg | ttagaatgaa | atggttccca | taaataaggg | 360 |
| gcatgagccc | ttcctcaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 420 |
| aaaaaaa    |            |            |            |            |            | 427 |

<210> 694  
 <211> 1257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (549)..(549)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (589)..(589)  
 <223> n equals a,t,g, or c

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| <400> 694   |            |            |             |            |            |      |
| gttttcagca  | ggattttcct | ttcagtga   | cataatttga  | cttgaaagga | acccagggaa | 60   |
| aagtgtccag  | gtgtgagcat | gagcgggtag | aggtgtgccc  | ttgtttgctt | caggctgtct | 120  |
| gcttttcgcc  | cctgactggt | ttttctgttt | ctggccatgg  | aggaagagaa | agatgacagc | 180  |
| ccacaggctg  | acttctgcct | gggcaccgcc | ctgcactctt  | ggggactgtg | gttmacggag | 240  |
| gaaggttmac  | cgtccaccat | gctgacgggg | attgcagttg  | gagccctcct | ggccctggcc | 300  |
| ttgggttggtg | tcctcatcct | tttcatgttc | agaaggctta  | gacaatttcg | acaagcacag | 360  |
| cccactcctc  | agtaccgggt | ccggaagaga | gacaaagtga  | tgttttacgg | ccggaagatc | 420  |
| atgaggaagg  | tgaccacact | ccccaacacc | cttgtggaga  | acactgccct | gccccggcag | 480  |
| cgggccagga  | agaggaccaa | ggtgctgtct | ttggccaaga  | ggattctgcg | tttcaagaag | 540  |
| gaatacceng  | gcctgcasc  | caaggacccc | cggcttccc   | tgctggagnc | cgacttcacg | 600  |
| gagttttgac  | tgaagaattc | tcacctgcca | tcggaagtcc  | tgtacatgct | gaaaaacggt | 660  |
| cgggtcctgg  | gccactttga | gaagcgcgtg | ttcctggagc  | tttgcaaa   | catcgctctt | 720  |
| gtgcagctgc  | aggaagggga | gcacgtcttc | cagcccaggg  | agccggaccc | cagcatctgt | 780  |
| gtggtgcagg  | acgggcggct | ggaggtctgc | atccaggaca  | ctgacggcac | cgaggtggtg | 840  |
| gtgaaagagg  | ttctggcggg | agacagcgtc | cacagcctgc  | tcagcatcct | ggacatcatc | 900  |
| accggccatg  | ctgcacctta | caaaacggtc | tccgtccrcg  | cggccatccc | gtccaccatc | 960  |
| ctccggcttc  | cagctgcggc | ttttcatgga | gtttttgaga  | aatatccgga | aactctggtg | 1020 |
| aggggtggtgc | agatcatcat | ggtgcggctg | cagaggggtga | cctttctggc | tctgcacaac | 1080 |
| tacctcgcc   | tgaccacaga | gctcttcaac | gctgagagcc  | aggccatccc | tctcgtgtct | 1140 |
| gtagccagtg  | tggctgccgg | gaaggccaag | aagcaggtgt  | tctatggcga | agaagagcgg | 1200 |
| cttaaaaagc  | caccgcggct | ccaggagtcc | tgtgactcag  | atcacggggg | cggccgc    | 1257 |

<210> 695  
 <211> 3302  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3274)..(3274)  
 <223> n equals a,t,g, or c

<400> 695

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| tcgacccacg  | cgcccgcgac  | ccægcgtcc   | ggggggaggt | aactgcagta  | agtcccgctt | 60   |
| ggccctggag  | tccacgcgga  | ttttcgaagc  | tggggctggc | aagaggccgc  | tggacaccac | 120  |
| gctccagtcg  | tcagcccact  | tcctagctga  | acagcgcgag | gcggcggcag  | cgagccgggt | 180  |
| cccaccatgg  | ccgcgaatta  | ttccagtacc  | agtaccggga | gagaacatgt  | caagttaaa  | 240  |
| accagctccc  | agccaggctt  | cctggaacgg  | ctgagcgaga | cctcgggtgg  | gatgtttgtg | 300  |
| gggctcatgg  | ccttcctgct  | ctccttctac  | ctaattttca | ccaatgaggg  | ccgcgcattg | 360  |
| aaagtcgcaa  | cctcattggc  | tgaggggctc  | tcgcttgtgg | tgtctcccga  | cagcatccac | 420  |
| agtgtggctc  | cggagaatga  | aggaaggctg  | gtgcacatca | ttggcgctt   | acggacatcc | 480  |
| aagcttttgt  | ctgatccaaa  | ctatggggtc  | catcttccgg | ctgtgaaact  | gcggaggcac | 540  |
| gtggagatgt  | accaatgggt  | agaaactgag  | gagtccaggg | agtacaccga  | ggatgggcag | 600  |
| gtgaagaagg  | agacgaggtg  | ttcctacaac  | actgaatgga | ggtcagaa    | catcaacagc | 660  |
| aaaaacttcg  | accgagagat  | tggccacaaa  | aaccccgagt | ccatggcagt  | ggagtcattc | 720  |
| ayggcaacag  | ccccctttgt  | ccaaattggc  | aggtttttcc | tctcgtcagg  | cctcatcgac | 780  |
| aaagtcgaca  | acttcaagtc  | cctgagccta  | tccaagctgg | aggacctca   | tgtggacatc | 840  |
| attcgccgtg  | gagacttttt  | ctaccacagc  | gaaaatccca | agtatccaga  | gktgggagac | 900  |
| ttgctgtgtc  | ccttttccta  | tgctggactg  | agcggcgatg | accctgacct  | gggccagct  | 960  |
| cacgtgggtc  | ctgtgattgc  | ccggcagcgg  | ggtgaccagc | tagtccatt   | ctccaccaag | 1020 |
| tctggggata  | ccttactgct  | cctgcaccac  | ggggacttct | cagagagga   | ggtgtttcat | 1080 |
| agagaactaa  | ggagcaactc  | catgaagacc  | tggggcctgc | gggcagctgg  | ctggatggcc | 1140 |
| atgttcatgg  | gcctcaacct  | tatgacacgg  | atcctctaca | ccttggtgga  | ctggtttcc  | 1200 |
| gttttccgag  | acctggccta  | cattggcctg  | aaagcctttg | ccttctgtgt  | ggccacctcg | 1260 |
| ctgacctgc   | tgaccgtggc  | ggctggctgg  | ctcttctacc | gacctctgtg  | ggccctctc  | 1320 |
| attgccggcc  | tggcccttgt  | gcccctctt   | gttgcctcga | cacgggtgcc  | agccaaaaag | 1380 |
| ttggagtga   | aagaccctgg  | caccgcgccg  | acacctgcgt | gagccctagg  | atccagggtc | 1440 |
| tctctcacct  | ctgaccacgc  | tccatgccag  | agcaggagc  | ccgggtcaatt | ttggactctg | 1500 |
| cacyccctct  | cctcttcagg  | ggccagactt  | ggcagcatgt | gcaccagggt  | ggtgttcacc | 1560 |
| agctcatgtc  | ttccccacat  | ctcttcttgc  | cagtaagcag | ctttggtggg  | cagcagcagc | 1620 |
| tcatgaatgg  | caagctgaca  | gcttctcctg  | ctgtttcctt | cctctcttgg  | actgagtggg | 1680 |
| tacggccagc  | cactcagccc  | attggcagct  | gacaacgcag | acacgctcta  | cggaggcctg | 1740 |
| ctgataaagg  | gctcagcctt  | gccgtgtgct  | gcttctcatc | actgcacaca  | agtgccatgc | 1800 |
| tttgccacca  | ccaccaagca  | catctgtgat  | cctgaagggc | ggccgttagt  | cattactgct | 1860 |
| gagtcctggg  | tcaccagcag  | acacactggg  | cæggacccc  | tcaaagcagg  | cacacccaaa | 1920 |
| acacaagtct  | gtggctagaa  | cctgatgtgg  | tgttttaaa  | agaagaaaca  | ctgaagatgt | 1980 |
| cctgaggaga  | aaagctggac  | atatactggg  | cttcacactt | atcttatggc  | ttggcagaat | 2040 |
| ctttgtagt   | tggtggatct  | ctgaaggccc  | tatttaagtt | tttcttogtt  | actttgtctg | 2100 |
| ttcatgtgta  | ctttcctacc  | ccaagaggaa  | gttttctgaa | ataagattta  | aaaacaaaac | 2160 |
| aaaaaaaaa   | cttaatatatt | cagactgtta  | caggaaacac | ccttttagtct | gtcagttgaa | 2220 |
| ttcagagcac  | tgaaagggtg  | taaattgggg  | tatgtggttt | gattgataaa  | aagttacctc | 2280 |
| tcagtatttt  | gtgtcactga  | gaagcttac   | aatggatgct | tttgaacaa   | gtatcagcaa | 2340 |
| aaggatttgt  | tttcaactctg | ggaggagagg  | gtggagaaag | cacttgcttt  | catcctctgg | 2400 |
| catcggaac   | tcccctatgc  | acttgaagat  | ggttttaaa  | attaaagaaa  | cgattaagag | 2460 |
| aaaaggtttg  | aagctttata  | ctaaatgggc  | tccttcatgg | tgacgccccg  | tcaaccata  | 2520 |
| tcaagaactg  | aggcctgagg  | ctggttgtac  | aatgcccacg | cctgcctggc  | tgttttcacc | 2580 |
| tgggagtgtc  | ttcgatgtgg  | gcacctgggc  | ttcctagggc | tgttcttgag  | tggttctttc | 2640 |
| acgtgtttgt  | tccatagctt  | tagtcttcc   | aaataagatc | caccacacac  | taagtcacag | 2700 |
| aattttctaag | ttccccaact  | æctctcacac  | ccttttaaa  | ataaagtatg  | ttgtaaccag | 2760 |
| gatgtcttaa  | atgattcttt  | gtgtaccttt  | tctgtcatat | tcagaaaccg  | ttttgtgcct | 2820 |
| gctgggagta  | attccttttag | caattaaagta | tttggtagct | gaataagggg  | tcagaacttc | 2880 |
| tgaaaccaga  | gatctgtaat  | catctctatt  | ggcctggggg | gcctgtgcta  | taatgagtt  | 2940 |
| tcttcacatg  | aaaaacacag  | ccagcccaag  | atgacttata | tgggttttagg | attcaatagt | 3000 |
| attcactaac  | tgtttattac  | atgagcaatt  | tcatcaaata | tccaaactct  | taaaggatgc | 3060 |
| tttcggaaaa  | cacgctgtat  | acctagatga  | tgactaaatg | caaaatcctt  | gggctttggg | 3120 |
| ttttttctag  | taaggatttt  | aaataactgc  | cgacttcaaa | agtgttctta  | aaacgaaaga | 3180 |
| taatgttaag  | aaaaatttga  | aagcttttga  | aaaccaaatt | tgtaatatca  | ttgtattttt | 3240 |
| tattaaaagt  | tttgaataaa  | atttctaatt  | tatnaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | 3300 |
| aa          |             |             |            |             |            | 3302 |

<210> 696  
 <211> 959  
 <212> DNA  
 <213> Homo sapiens

<400> 696  
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 caaaatgaag cttctcctttt gggcctgcat tgtatgtgtt gcttttgcaa ggaagagacg 120  
 gttccccttc attggtgagg atgacaatga cgatggtcac ccacttcac catctctgaa 180  
 tattccttat ggcatacggg atttaccacc tctcttttat tatcgcccag tgaatacagt 240  
 ccccgattac cctgggaata cttacactga cacagggtta ccttcgtatc cctggattct 300  
 aacttctcct ggattcccct atgtctatca catccgtggg ttcccttag ctactcagtt 360  
 gaatgttcct cctctccctc ctagggtttt cccgtttgtc cctccttcaa ggtttttttc 420  
 agcagctgca gcacccgctg cccacctat tgcagctgag cctgctgcag ctgcacctct 480  
 tacagccaca cctgtagcag ctgagcctgc tgcaaggggc cctgttgag ctgagcctgs 540  
 tggcagaggc cacctgttgg agcttgagcc tgctgcagag gcacctgttg cagctgagcc 600  
 tgctgcagag gcacctgttg gagggtgagc agctgcagag gaaccttcac cagctgagcc 660  
 tgctacagcc aagcctgctg cccagagaac tcacctttct cctctctctg aacaggcaaa 720  
 tcagtgaagt tctctagaag agtaccatgg gttcatttct aactgatgc agaaataagt 780  
 gaaatctaca aaagttttct ttctttttcca aagactatct cattctgttg tattcagagt 840  
 attcatctca ctacattgat ttgtttgtgg tagtttttcc ttggacttaa tttatattga 900  
 aaaaacattg ataattaat aaataaaata gataatttag accaaaaaaa aaaaaaaaaa 959

<210> 697  
 <211> 2227  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (289)..(289)  
 <223> n equals a,t,g, or c

<400> 697  
 cggacgcgtg ggtcgaccca cgcgtccggg aaaaarggaa aaratgccgt gtaaaatctc 60  
 gttctgtgtc tgaattgccg taggctcaga tcttcatttg aggttctgtg tctgaattgc 120  
 cgtaggctca gatcttcatt tgaggttatg ttctataagt taacgttgat cttgtgtgag 180  
 ctttcggtag ctggagtaac acaggcggcc tcacagcgac ctctccagcg ccttccaagg 240  
 cacatctgca gccagcgtaa tcttctctgg agatgcctcc tcaaggcct gctccagacc 300  
 acgtggggar ggctgacar ccaattccca ggctgtcccc acccttgrag agtgacccta 360  
 aacgctagac agatggggaa tgggaaagaa aagaaagctg cagacctcaa gttaaaattc 420  
 cctcaaaaac gtttttattt atctgctttt tctgaaagga taaaggcttt ttgaaaatta 480  
 ttttctaaca aataacatga acacttctag aaccctaga aaaacacaaa gtattcaaaa 540  
 tagaaagaaa aattacccat tactctttta gccagcatta tccattgcgg tgcttttgga 600  
 gttgggtgag gccgtagcct ctgccaagtc aaggagcccg gtggtggctg tggcattcct 660  
 gcagggttgt ttttttttct ttgagatgga gtctcactct tgtcacccca gctggaatgt 720  
 ggtggtgtaa acagctcact gcagccttga cctgaggct caagcgatcc ttctgccttg 780  
 gcctcctgag tagctgggat cccaggcgag agtcaccaca cctgtccat gttcctgcag 840  
 gtcttgatat gcgaggacgc tgtgtcttcc ctgccacatt ttcttcttct ttcttgagac 900  
 agacccttgc tccatcaccc aggccaggt gtggtsgtgc gaacacggct cactgcagcc 960  
 tcgaccctca ggctcaagcg atcctcacgc ctgggacccc caaagtgtg ggatcacagg 1020  
 cgagagtcac catgctggcc tgaatcttca gggatattta cgggtgaagt gtcacttact 1080  
 tarccatssc tgtttcaaga gtgtagggtg tcacctgtc tctgycgtg acctggctg 1140  
 gaccctcggc tgtgagaggg aggggtgggc tgggtgtgag gaacctraag cctcgtgtg 1200  
 gtcacaagcc catctggctg gccatcccct gctgtgtcct gagctgcaca tgccccaggt 1260  
 ggccccaca gcagaggcga gccactgrag ggtgragggc ttccacggac ggtcttcagg 1320  
 ggragaagaa gggcccaggc cccaggaga ctgaggagac cagagcctgg ggtcaggggc 1380

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| tyagcagggg | ctyarccagg | gctggatgtc | cggagccagc | cccgmagccc | tgkgktcttt | 1440 |
| gttcttcgca | ctcccaccgt | ccgtgtgaac | agctccagcc | ccacctgcgc | ctccctgtgc | 1500 |
| tgggctccat | cagggagccc | agaagacgtg | tgtgcttctg | aaattgggtc | ctacatgcc  | 1560 |
| tttgtcccag | tgcaccttgc | tccttccatt | tactatcgag | atttaaagtc | ctgttttctc | 1620 |
| cccagagggt | gacggatata | ttcagacgtt | acgacacgga | tcaggacggc | tggattcagg | 1680 |
| tgctgtacga | acagtacctg | tccatgggtc | tcagtatcgt | atgaccctgg | cctctcgtga | 1740 |
| agagcagcac | aacatggaaa | gagccaaaat | gtcacagttc | ctatctgtga | gggaatggag | 1800 |
| cacaggtgca | gttagatgct | gttcttccct | tagattttgt | cacgtgggga | cccagctgta | 1860 |
| catatgtgga | taagctgatt | aatgggtttg | caactgtaat | agtagctgta | tcgttcta   | 1920 |
| gcagacattg | gatttggtga | ctgtctcatt | gtgccatgag | gtaaatgaa  | tgtttcaggc | 1980 |
| attctgcttg | caaaaaaatc | tatcatgtgc | ttttctagat | gtctctggyt | ctatagtgca | 2040 |
| aatgctttta | ttagccaata | ggaattttta | aataacatgg | aacttacaca | aaaggctttt | 2100 |
| catgtgcctt | acttttttaa | aaaggagttt | attgtattca | ttggaatatg | tgacgtaagc | 2160 |
| aataaaggga | atgttagacg | tgtaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2220 |
| aaaaaaa    |            |            |            |            |            | 2227 |

<210> 698  
 <211> 2214  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (289)..(289)  
 <223> n equals a,t,g, or c

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| <400> 698   |            |             |             |             |            |      |
| cggacgcgtg  | ggtcgaccca | cgcgtccggg  | aaaaarggaa  | aaaratgccgt | gtaaaatctc | 60   |
| gttctgtgtc  | tgaattgccg | taggtcaga   | tcttcatttg  | aggttctgtg  | tctgaattgc | 120  |
| cgtaggctca  | gatcttcatt | tgaggttatg  | ttctataagt  | taacgttgat  | cttgtgtgag | 180  |
| ctttcggtag  | ctggagtaac | acaggcggcc  | tcacagcgac  | ctctccagcg  | ccttccaagg | 240  |
| cacatctgca  | gccagcgtam | tcctcctggg  | agatgcctcc  | tcaaggccnt  | gctccagacc | 300  |
| acgtgggrar  | ggcctgacaa | gccaattccc  | aggetgtccc  | cacccttgra  | gagtgaccct | 360  |
| aaacgctaga  | catatgggga | atgggaaaga  | aaagaaagt   | gcagacctca  | agttaaaatt | 420  |
| ccctcaaaaa  | cgtttttatt | tatctgtctt  | ttctgaaagg  | ataaaggctt  | tttgaaaatt | 480  |
| attttctaac  | aaataacatg | aacacttcta  | gaaaccctag  | aaaaacacaa  | agtattcaaa | 540  |
| atagaaagaa  | aaattaccca | ttactcttta  | agccagcatt  | atccattgcg  | gtgcttttgg | 600  |
| agttgggtga  | ggccgtagcc | tctgccaaagt | caaggagccc  | ggtggtggct  | gtggcattcc | 660  |
| tgcaggggtg  | tttttttttc | tttgagatgg  | agtctcactc  | ttgtcaccac  | agctggaatg | 720  |
| tggtggtgta  | aacagctcac | tgcagccttg  | accctgaggc  | tcaagcgatc  | cttctgcctt | 780  |
| ggcctcctga  | gtagctggga | tcccaggcga  | ggtcaccac   | accctgtcca  | tgttcctgca | 840  |
| ggtcttgata  | tgcgaggacg | ctgtgtcttc  | cctgccacat  | tttcttcttc  | tttcttgaga | 900  |
| cagacccttg  | ctccatcacc | caggccagag  | tgtggtsgtg  | cgaacacggc  | tactgcagc  | 960  |
| ctcgaccctc  | aggctcaagc | gatcctcagc  | cctcggaccc  | ccaaagtgct  | gggatcacag | 1020 |
| gcgagagtca  | ccatgctggc | ctgaatcttc  | aggggtatttr | cggttgargt  | gycacttact | 1080 |
| tarccatscc  | tgtttcaaga | gtgtaggtgg  | tcaccctgtc  | tctgccgctg  | acctggcctg | 1140 |
| gaccctcggc  | tgtgagaggg | aggggtgggc  | tgggctggag  | gaacctraag  | ccctcgtgat | 1200 |
| gtcacaagcc  | catctggctg | ggcatcæct   | gctgtgtcct  | gagctgcaca  | tgccccagg  | 1260 |
| ggccccccaca | gcagaggcga | gccactgrag  | ggtgragggc  | ttccacggac  | ggtcttcagg | 1320 |
| ggragaagaa  | gggccaggc  | ccccaggaga  | ctcaggagac  | cagagcctgg  | ggtcaggggc | 1380 |
| tmagcagggg  | ctyarccagg | gctggatgtc  | cggagccagc  | cccgmagccc  | tgkgktctt  | 1440 |
| gttcttcgca  | ctcccaccgt | ccgtgtgaac  | agctccagcc  | ccacctgcgc  | ctccctgtgc | 1500 |
| tgggctccat  | cagggagccc | agaagacgtg  | tgtgcttctg  | aaattgggtc  | cctacatgcc | 1560 |
| tttgtcccag  | tgcaccttgc | tccttccatt  | tactatcgag  | atttaaagtc  | ctgttttctc | 1620 |
| cccagagggt  | gacggatata | ttcagacgtt  | acgacacgga  | tcaggacggc  | tggattcagg | 1680 |
| tgctgtacga  | acagtacctg | tccatgggtc  | tcagtatcgt  | atgaccctgg  | cctctcgtga | 1740 |
| agagcagcac  | aacatggaaa | gagccaaaat  | gtcacagttc  | ctatctgtga  | gggaatggag | 1800 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cacaggtgca | gtagatgct  | gttcttcctt | tagattttgt | cacgtgggga | ccagctgta  | 1860 |
| catatgtgga | taagctgatt | aatgggtttg | caactgtaat | agtagctgta | tcgttcta   | 1920 |
| gcagacattg | gatttggtga | ctgtotcatt | gtgccatgag | gtaaatgtaa | tgtttcaggc | 1980 |
| attctgcttg | caaaaaaatc | tatcatgtgc | ttttctagat | gtctctggtt | ctatagtgca | 2040 |
| aatgctttta | ttagccaata | ggaattttaa | aataacatgg | aacttacaca | aaaggctttt | 2100 |
| catgtgcctt | acttttttaa | aaaggagttt | attgtattca | ttggaatatg | tgacgtaagc | 2160 |
| aataaaggga | atgttagacg | tgtaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaag       | 2214 |

<210> 699  
 <211> 1005  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1004)..(1004)  
 <223> n equals a,t,g, or c

|            |            |             |            |             |            |      |
|------------|------------|-------------|------------|-------------|------------|------|
| <400> 699  |            |             |            |             |            |      |
| atgggaaatg | ctcttttgaa | ggtacgcccg  | caggctcccg | tccggaattc  | ccgggtcgac | 60   |
| ccacgcgtcc | ggccagaagc | agccatgaag  | tgagcctgca | ggcaggccag  | cctgtgacca | 120  |
| tcctggaggc | ccaggacaag | aaggggaaac  | ctgagtggag | cctgggtggaa | gtgaatggac | 180  |
| agaggggtta | tgtgccttct | ggcttcttgg  | ccagggtctg | gagcccagtt  | ctgtggggct | 240  |
| ggagtctgcc | ctcttagggt | accctctttg  | gagcctacat | tgccaaatga  | tgggggaggc | 300  |
| ttagaggctc | tgaccctggg | gggaaaagaa  | gcaaaggaaa | gtggagggtg  | gaagggaaga | 360  |
| ccaggccagg | gtgggtgaag | cacactcagg  | aggcagccag | aagacatggg  | cgggcctcgc | 420  |
| agagtgtctg | gtgtggtggg | ggcacaggag  | gctccagcca | ggactgctca  | ttatgtctgc | 480  |
| ataaagaact | cattccgacc | tggggtcaca  | atgcacttgg | acagcaggtc  | acagctgatt | 540  |
| ggccaggact | ctcgataggt | tatggccagt  | cttagctgtg | cctgcatccg  | ggcctgcctg | 600  |
| tgggcgtggg | tcacacggga | taatgttacc  | tgcgtgctgt | gtggttgcag  | gaagcgggtt | 660  |
| ctggaggagt | ccagaactgc | ctggtcagac  | agttcacttc | ctacacatgg  | tatcaggaga | 720  |
| catcataacc | aatgagtcag | cttttatttc  | tctatgttgg | aagctgagtt  | tatcttgggc | 780  |
| agtgaccac  | tgggagccct | ctcaagtggg  | gaagccatgg | atttatcggg  | gtagcagaga | 840  |
| ggttcccaa  | actcttgact | ggtcctggga  | gtgggtgtga | ccaagtcata  | gttctggaat | 900  |
| gtgtgtaggc | aaattcagag | gctgttccag  | ggaagagggg | attttgatac  | tgtgttaggt | 960  |
| ggggtgtgtg | aggctgytgg | cagcagggtga | acagctactg | ctgng       |            | 1005 |

<210> 700  
 <211> 2988  
 <212> DNA  
 <213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 700  |            |             |            |            |            |     |
| cccacgcgtc | cggccagaag | cagccatgaa  | gtgagcctgc | aggcaggcca | gcctgtgacc | 60  |
| atcctggagg | cccaggacaa | gaagggaac   | cctggttggg | gcctggtgga | agtgaatgga | 120 |
| cagaggggtt | atgtgccttc | tggcttcttg  | gccagggtct | ggagcccagt | tctgtggggc | 180 |
| tggagtctgc | cctcttaggg | taccctcttt  | ggagcctaca | ttgccaaatg | atgggggagg | 240 |
| cttagaggct | ctgaccctgg | ggggaaaaga  | agcaaaggaa | aggtggaggt | ggaagggaag | 300 |
| accaggccag | ggtgggtgaa | gcacactcag  | gaggcagcca | gaagacatgg | gcgggcctcg | 360 |
| cagagtgtct | ggtgtggtgg | gggcacagga  | ggctccagcc | aggactgtct | attatgtctg | 420 |
| cataaagaac | tcatccgac  | ctggggtcac  | aatgcacttg | gacagcaggt | cacagctgat | 480 |
| tggccaggac | tctcgatagg | ttatggccag  | tcttagctgt | gcctgcatcc | gggcctgcct | 540 |
| gtgggcgtgg | gtcacacggg | ataatgttac  | ctgcgtgctg | tgtggttgca | ggaagcgggt | 600 |
| tctggaggag | tccagaactg | cctggtcaga  | cagttcactt | cctacacatg | gtatcaggag | 660 |
| acatcataac | caatgagtca | gcttttattt  | ctctatgctg | gaagctgagt | ttatcttggg | 720 |
| cagtgaacca | ctgggagccc | tctcaagtgg  | ggaagccatg | gatttatcgg | tgtagcagag | 780 |
| aggttcccaa | gactcttgac | tggctcctggg | agtgggtgtg | accaagtcac | agttctggaa | 840 |



|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| tgtgtgtagg | caaattcaga  | ggctgttcca | gggaagaggg  | gattttgata  | ctgtgttagg  | 900  |
| tggggtgtgt | gaggctgttg  | gcagaggtg  | aacagctact  | gctgtgttct  | caggactagg  | 960  |
| gaacaaaggg | gtatgcaaat  | catagaggaa | actctgggaa  | ggcggtgata  | aggcctgggtg | 1020 |
| ggtggggagg | ttaggggaatg | gcttgctttc | ctgtttcttg  | ttagaagggg  | agccaggggg  | 1080 |
| aacccccagt | ggtttcaggt  | ggccctgag  | gtcctggagg  | cagccgtgga  | tgtgagcaa   | 1140 |
| ttggctgtgg | gaccttagat  | gtaggacaca | acttcagtgt  | tcccatccag  | aaagacctca  | 1200 |
| ctcacagggt | tgtgctgaga  | atgacatggg | gctaagcatg  | cagagctccc  | tgtaaactgt  | 1260 |
| gaagtgtgat | acaaatgtaa  | atgacagcag | tgatctcggg  | gtggcccccg  | gcatgctgcc  | 1320 |
| ctcccccacg | cccatgcctg  | tggcagcaaa | ccttgttcat  | cagtatagct  | ttctttcctg  | 1380 |
| taacccagga | tctaccttgg  | ggggcttctc | aatactgcat  | tctatgtagc  | cagcctcttt  | 1440 |
| aacttggtaa | gtgagccacc  | ccattctaga | acctggaaat  | tggagcccct  | caaaaacagt  | 1500 |
| tctgttcaa  | ggaggactga  | cctgctgggg | caatggtggg  | tgcagtgcagt | ccctgcttg   | 1560 |
| gggtggtcat | gtctaggctg  | ttgctctggg | caaagataag  | ttgcaagatt  | cacagaaatg  | 1620 |
| ggaaaatgtg | accaagtgtg  | atcttaacaa | ctgacaaaag  | ttgtaaccaa  | cccaagttag  | 1680 |
| aatgtgtgtc | aaacaggagg  | tagtttagat | atgcttccaa  | gaacatgtct  | gtgttataac  | 1740 |
| catagtgcct | aagcagttag  | ctctggtttt | tgaagggctt  | ttaagaaata  | tatacatgtc  | 1800 |
| tgtgtcagtc | tataacttgc  | ctcctctggg | cctgttaaaag | catgaagact  | gcatgacaca  | 1860 |
| agagaaatgc | aagccctacg  | gttcctttct | cagcagcgaa  | ttcacttgag  | aggatgctct  | 1920 |
| tgactcattc | tctctgctct  | ttcctgctca | gattttctgat | aaaaatagag  | agcatagggg  | 1980 |
| aacagataat | gaaataggaa  | accactctgt | gggttcacac  | gatacctacc  | gaaggcctac  | 2040 |
| tgtgtgctag | aattgtagct  | caggagtctc | cagtgtagct  | gtcactgaa   | gttaccatgg  | 2100 |
| caggtttcaa | ctggcagaat  | ccaggctccg | tcccacccag  | agattctgat  | gaaattggtt  | 2160 |
| taggggtgtg | ctcgggcctc  | aggaattcag | aaagcttccc  | agggtcttcc  | aatgtgcagc  | 2220 |
| cagggttagg | gacctctacc  | ctagacacaa | agtattggac  | agatagacct  | ggtgccagag  | 2280 |
| atggccaaga | gctgtaagct  | aggacgtgcc | ccacctgagc  | tctgcactag  | ctagttcaaa  | 2340 |
| caggcgcttt | aaaggcagtg  | tgaaagggga | cagcctgtt   | tgccagggtct | cagaatgtat  | 2400 |
| atttattaag | tgccatttaa  | agggacctga | acaaaatttg  | atgtcttgta  | ggcataaggg  | 2460 |
| aggaaaataa | aataacttgg  | gaaccaagtc | tatgtcatga  | agggaaaata  | aaaatgtatt  | 2520 |
| cagtagcacg | tgggttatgg  | tttctcatag | accaggggga  | aagattaaaa  | gtcactgaag  | 2580 |
| agtgggaaaa | tgcatgttga  | gaagatgaga | atggcctgta  | ttttctccag  | gggaatctgt  | 2640 |
| gtaatgtgcc | ttttccctct  | ccaaatgcct | agaacctagg  | cactgtgtct  | tattttattta | 2700 |
| accgttgggc | tgtctcatac  | taaacttgca | aagatatttg  | cctatgaact  | gaacaagact  | 2760 |
| tccaggagtt | gaagtctggt  | tcacaagggt | acæcttgcc   | tctgtgatg   | gagtggagaac | 2820 |
| tcttaaacc  | ctcaggcccc  | aactcagttg | tggagatgag  | gacaagatta  | caatatcaaa  | 2880 |
| agaaagatga | atgaattctt  | ggttaatatg | acgaacccca  | gctcaatgag  | taactgatgt  | 2940 |
| gaactgctgg | gaataaaggga | cttcaaagat | ggaaaaaaa   | aaaaaaa     |             | 2998 |

<210> 701  
 <211> 2052  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 701  |             |            |            |            |             |     |
| tttttttttt | tccatctttg  | aagtccttta | ttcccagcag | ttcacatcag | ttactcattg  | 60  |
| agctgggggt | cgtcatatta  | accaagaatt | cattcatctt | tcttttgata | ttgtaatctt  | 120 |
| gtcctcatct | ccacaactga  | gttggggcct | gaggggttta | agagttctca | ctccatcaca  | 180 |
| ggaggcaagg | ggtacccttg  | tgaaccagac | ttcaactcct | ggaagtcttg | ttcagttcat  | 240 |
| aggcaaatat | citttgcaagt | ttagtatgag | acagcccaac | ggttaaataa | ataagacaca  | 300 |
| gtgccatggt | tctaggcatt  | tggagaggga | aaaggcacat | tacacagatt | cccctggaga  | 360 |
| aaatacaggc | cattctcatc  | ttctcaacat | gcattttccc | actcttcagt | gacttttaat  | 420 |
| cttatccctt | ggtctatgag  | aaaccataac | ccacgtgcta | ctgaatacat | ttttattttc  | 480 |
| ccttcatgac | atagacttgg  | ttccaagtat | attttatttt | cctcccttat | gcctacaaga  | 540 |
| catccaattt | tgttcaggtc  | cctttttatg | gcacttaata | aatatacatt | ctgagacctg  | 600 |
| gcagaacagg | ctgtcccctt  | tcacactgcc | tttaaagcgc | ctgtttgaac | tagctagtgc  | 660 |
| agagctcagg | tggggcacgt  | cctagcttac | agctcwtggc | catctctggc | accagggtcta | 720 |
| tctgtccaat | actttgtgtc  | tagggtagag | gtccctaacc | ctggctgcac | attggaaga   | 780 |
| cctgggaagc | tttctgaatt  | cctgaggccc | gagccacacc | ctaaaccaat | ttcatcagaa  | 840 |

```

tctctgggtg ggacggagcc tggattctgc cagttgaaac ctgccatggt aacttcagtg 900
agcagctaca ctgagaactc ctgagctaca attctagcac acagtaggcc ttcggtaggt 960
atctgtggaa cccacgagtg gtttcctat ttcattatct gttcccctat gctctctatt 1020
ttkatcagaa atctgagcar gaaagagcag agagaatgag tcaagagcat cctctcaagt 1080
gaattcgctg ctgagaaagg aaccgtaggg cttgcatttc tcttggtgca tgcagtcttc 1140
atgctttaac aggcccagag gaggcaagtt atagactgac acagacatgt aattatttct 1200
taaaagccct tcaaaaacca gagctcactg cttaggcact atggttataa cacagacatg 1260
ttcttggaag catactctaaa ctacctcctg ttgacacac attctaactt gggttgggta 1320
caaactttgt cagttgttaa gatcacactt ggtcacattt tcccatttct gtgaatcttg 1380
caacttatct ttgccagag caacagccta gacatgacca cccaagcag ggactgcact 1440
gcacccaaca ttgcccagc aggtcagtc tccttgaaca ggaactgtt ttgaggggct 1500
ccaatttcca ggttctagaa tggggtggct cacttacc aa gttaaagagg ctggctacat 1560
agaatgcagt attgagaagc cccccaaggt agatcctggg ttacaggaa gaaagctata 1620
ctgatgaaca aggtttgctg ccacaggcat gggcgtgggg gagggcagca tgccgggggc 1680
caccgccaga tcaactgctgt catttacatt tgtatcacac ttcacagttt acaggggagt 1740
ctgcatgctt agccccatgt cattctcagc acaacctgt gagtgaggtc tttctggatg 1800
ggaacactga agttgtgtcc tacatctaag gtcccacagc caattgcac acatccacgg 1860
ctgctccag gacctcaggg gccacctgaa accactgggg gttccccctg gctccccctt 1920
taaccagaaa caggaaagca agccattccc taacctcccc acccaccagg ccttatcacc 1980
gccttcccag agtttctct atgatttgca taccctttg tccctagtc ctgagaacac 2040
agcagagctt tc 2052

```

```

<210> 702
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (137)..(137)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (450)..(450)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (465)..(465)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (488)..(488)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (585)..(585)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (619)..(619)
<223> n equals a,t,g, or c

```

```

<400> 702
gcacctcagg ccctccaagc gcaggatgca ggccgtggcc aacgtgtcca ttggggccat      60
gttctgcatg tatgggctca cagcaacctt tggatacctc accttctaca gtraggggg      120
ctggggctag ggctggnggg agggggaagg cctggggcag gagcctctga gctctttcct      180
tctgtgacca cggacctgtc agtttccaaa cagaargtgt gcctcacttg tgtggatttt      240
gtcactgtgc atgtatgtat gggtttctgg ggcattggtc ctggtgctct ctccacatcc      300
tgcaccccgt accctctgtc tcatggscga rgcartgtga aggcggagat gctgcacatg      360
tacagccaga aggacccgct catcctctgt gtgcgcctgg ccgtgctgct cgcggtgacc      420
ctcactgtgc cagtcgtgct gttccctatn cgccgggccc tgcancagct gcttttccca      480
ggcaaggnc t cagctggcc acgacatgtg gccataagct ctgatctgcttgtttgggtca      540
atgtccttgt catctgtgtg ccaacatccg ggatatcttt ggganttaat cgggtcaact      600
caagccccag ctcatcttna tctcccag      628

```

```

<210> 703
<211> 923
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (9)..(9)
<223> n equals a,t,g, or c

```

```

<400> 703
gggaacggna aactcgtttg ggttkggcca wgctgcmcat gtacagccag aaggacccgc      60
tcatcctctg tgtgcgcctg kycgtgctgc tcgcgggtgac cctcactgtg ccagtcgtgc      120
tgttccctat ccgccgggcc ctgcagcagc tgcttttccc aggcaaggcc tcagctggc      180
cacgacatgt ggccatagct ctgatcctgc ttgttttggg caatgtcctt gtcacatctg      240
tgccaacccat ccgggatact tttggagtta tcgggtccac ctacagcccc agcctcatct      300
tcatcctccc cagcatcttc tacctccgca ttgtaccctc tgagggtggag cctttcttat      360
cctggcccaa gatccaggcc ctgtgctttg gagtccctggg agtcctcttc atggccgtca      420
gtctaggctt tatgtttgcc aactgggcca caggccagag ccgcatgtct ggacactgat      480
caggccctgc tggcccaggt cctgtgctgc atgcacatgg aggggtcagg gccgctccct      540
agggtccttc ctgccaaca tgtggaggtg gctggttccc atgaagtgg ttgtcagagg      600
cggggggacag cagaggctgc agactggccc acttccctcc tccccaggga tgccaagctt      660
ggatcatggc cctaataccca accccaaccc catgggagga ggaggaggag gaagagagga      720
ggaggaggag gaggaggagg aggaggagga ggaggccagg tcctgggtgga gcctttgccc      780
agcccagtc tctctgcctc ctcttggtg aagctgtttg tcaggattac cctcgggcta      840
aagaggaaaa ataaagatgt tgagctacca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      900
aaaaaaaaaa aaaaagggcg gcc      923

```

```

<210> 704
<211> 1159
<212> DNA
<213> Homo sapiens

```

```

<400> 704
ggaattttgt tgttctctgt ctctttgatt tcctggaaga cgacaccatg acaatttcaa      60
agaaaaataga acaaaaatgaa ggaaaaagag gctctgtctt agcacattcc tgtgaccagc      120
ctgctgtctg ttgtgtgccc tcttgccccg gccttggcac atgttcgttt ttgtggttgt      180
tgccctggaca ggcaactctg cagggtctgt tctctacgca tccctttgcc tgccctgctg      240
tgccaggggt tgtcaagggc ttttgggtca gagtgggcac ccctttctcc aaggctccct      300
gcaacagctg gcctgtccct ggtggggctg acagcttcc tctcaccctg ccaggctgcc      360
caagcgccag aggtgacctg tgaggcagaa gagggtcctt tgtggacgtt gctactcact      420
agcttggatg ggcacctgct ggagccagat gctgagtacc tccactggct gctaaccaac      480
atcccgggtg accgggtggc tgaaggacag gtgacgtgtc cctacctccc ccccttccct      540
gcccgaggct ccggcatcca ccgtcttgcc ttctgtctct tcaagcagga ccagccgatt      600

```

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| gactttctctg | aggacgcacg | cccctcaccc | tgctatcage | tggcccagcg | gaccttccgc  | 660  |
| acttttgatt  | tctacaagaa | acaccaagaa | accatgactc | cagccggctt | gtccttcttc  | 720  |
| cagtgcgcgt  | gggatgactc | cgtcacctac | atcttccacc | agcttctgga | catgcgggag  | 780  |
| ccggtgtttg  | agttcgtgcg | gccgccccct | tacacccca  | agcagaagcg | cttccccac   | 840  |
| cggcagcccc  | tgcgctacct | ggaccggtac | agggacagtc | atgagccac  | ctatggcatc  | 900  |
| tactaaggag  | ccagagtgtg | cgcatttcag | agcatgggat | tgatcggcag | caagagtaaa  | 960  |
| gacacagctc  | cagaggccca | cactgtgggg | tctgggccct | gccttaggca | gccccctct   | 1020 |
| ttggccccct  | cccgtcaggc | ccagggcttg | gagtgaaggt | gactctcagg | tggtgggggtg | 1080 |
| gggaatgtga  | ataaacatga | tttcttgccg | ggaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | 1140 |
| aaaaaaaaaa  | aaaaaaaaaa |            |            |            |             | 1159 |

<210> 705  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (275)..(275)  
 <223> n equals a,t,g, or c

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| <400> 705  |            |             |            |            |             |     |
| ccgggtcgac | ccacgcgtcc | gacagcagag  | atctgtggag | taggattgtg | ggctggcagt  | 60  |
| gggtttatcc | cacagaccta | agacagstac  | ttaatttgta | tagacccttc | ccagcctggg  | 120 |
| cctctgggtt | ttccttctgg | gtggagatca  | tcttctgtag | gaaatggaac | tgcttcaagc  | 180 |
| caagaagctt | ttacttttac | taggtctttt  | tgtgtcctgc | tgktcaaata | ttaggaagac  | 240 |
| tgaaccctgt | ttcggctctg | acagtattac  | gttngtgat  | ccccaaaaaa | agtgtttgag  | 300 |
| taacctcaag | tcatgctgaa | agtgaatatac | agcttaaagt | gggattctgc | tggaacctgac | 360 |
| tcaacttttc | acctcaccgc | ttggctccgt  | gcaggcagta | tttgagtatg | tggttcccc   | 420 |
| tcaagtctgt | aggagttgta | ttgtcaataa  | agtccaaggc | cagagtgctt | gctttctagt  | 480 |
| aagtagagag | aatttttgaa | attcaacgac  | aaacatttat | taagccctta | ttgtgtgaag  | 540 |
| ggctcaaagc | taagtgtctt | gggtgattca  | gggtgattag | ggataggatt | ccatcttcaa  | 600 |
| gaagcctccc | atctaggaag | aaaggtcgat  | aagcatagtt | ttggacacat | gggagagcat  | 660 |
| ggctttctct | gggccagta  | attactttgg  | tatccagatc | attagagaac | ggaatgcctt  | 720 |
| ctattgaact | atgtaacagt | cacaggttta  | gatcttctca | agttattatt | gcctttaatc  | 780 |
| ttcatatgat | ycctatcctg | cagttaggaa  | atggaamccc | taggatatag | tgactgtgag  | 840 |
| ctcagaaaat | taggttggga | gataagccag  | tagattgagg | tggtagattc | ttcaagatct  | 900 |
| tgaagggggg | aa         |             |            |            |             | 912 |

<210> 706  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (298)..(298)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 706  |            |            |            |            |             |     |
| ccnaaaaaaa | aaaaagaaag | aaaactcatt | ctatttttct | ctttggagca | gagggttgcaa | 60  |
| aactgtgatg | cctaacaaaa | acgttgtgta | taaaagctcc | aaaaccaagc | attagcctaa  | 120 |

|            |            |            |            |                      |            |     |
|------------|------------|------------|------------|----------------------|------------|-----|
| attggctata | actgcaactt | aaatcaaaaa | ctatatccaa | ctagatcttc           | gttgtggcta | 180 |
| tgcaactttt | tgctttgtgg | cctgaagggt | tttactgagg | taacaacctcttatctcttg |            | 240 |
| tccttccttc | aaccacaaaa | gcaaaacccg | ggaattccgg | accggtacct           | gcaggctncc | 300 |
| ttctatagt  | tcacctaata | a          |            |                      |            | 321 |

<210> 707  
 <211> 2342  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (66)..(66)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2332)..(2332)  
 <223> n equals a,t,g, or c

|            |            |             |             |             |            |      |
|------------|------------|-------------|-------------|-------------|------------|------|
| <400> 707  |            |             |             |             |            |      |
| tccgggggct | gctcctgcat | catccaaccc  | ttccaaaccc  | ctacacgatg  | gctgtggctg | 60   |
| cacgantcac | ggcagctacc | acggtaaccc  | acatcacagc  | cttgaccct   | gacagcacgg | 120  |
| ggcagcaggt | gtggcaggat | ctacttcagg  | atggacagct  | ggactctccc  | actggtgatg | 180  |
| gggggtctga | ctgggagatg | gtgggaagag  | aggttgtccc  | tgtcttgga   | ccaggggtgg | 240  |
| gaggcctggg | aataagtagg | ccttgtttcc  | atggttagga  | tcctatccc   | tggggctgaa | 300  |
| ggggctcctg | tcctgaattc | tcttgtgttt  | ctctcaggcc  | aaagcacccc  | tacgcagaaa | 360  |
| ggagtaggca | ttgctggagc | tgtgtgtgtt  | tccagcaagt  | tgcgacctcg  | aggccagtgc | 420  |
| cgcctggagt | tttactggc  | ttgggacatg  | cccaggatca  | tgtttggagc  | taaaggccaa | 480  |
| gtccactaca | ggcgttatac | aaggttcttt  | ggccaggag   | gagatgcagc  | acctgccctc | 540  |
| agccactatg | cactgtgccg | atacgcagag  | tgggaagaga  | ggatctcagc  | ttggcagagc | 600  |
| ccggtatttg | atgacagatc | actgcctgcc  | tggtacaaat  | ctgcgctgtt  | caatgaacta | 660  |
| tacttcctgg | tgatggagg  | cacagtgtgg  | ctggaagttc  | ttgaggactc  | cctaccagag | 720  |
| gagctgggca | gaaacatgtg | tcacctccgc  | cccacctac   | gggactacgg  | tcgatttggc | 780  |
| taccttgagg | gccaggagta | ccgcattgtac | aacacatatg  | atgtccactt  | ttatgcttcc | 840  |
| tttgcctca  | tcatgctctg | gccccaaactt | gagctcagcc  | tacagtatga  | catggctctg | 900  |
| gccactctca | gggaggacct | gacacggcga  | ctgtacctga  | tgagtggggg  | gatggcacct | 960  |
| gtgaaaagga | ggaacgtcat | cccccatgat  | attggggacc  | cagatgatga  | accatggctc | 1020 |
| cgcgtcaatg | catatttaat | ccatgatact  | gctgattgga  | aggacctgaa  | cctgaagttt | 1080 |
| gtgctgcagg | tttatcgga  | ctattacctc  | acgggtgatc  | aaaacttcct  | gaaggacatg | 1140 |
| tggcctgtgt | gtctagctgt | gatggaatct  | gaaatgaagt  | ttgacaagga  | ccatgatgga | 1200 |
| ctcattgaaa | atggaggcta | tgcagaccag  | acctatgatg  | gatgggtgac  | cacaggcccc | 1260 |
| agtgttact  | gtggagggtc | gtggctggca  | gctgtggctg  | tgatgggtcca | gatggctgct | 1320 |
| ctgtgtgggg | cacaggacat | ccaggataag  | ttttcttcta  | tcctcagccg  | gggccaagaa | 1380 |
| gcctatgaga | gactgctgtg | gaatggccgc  | tattacaact  | atgacagcag  | ctctcggcct | 1440 |
| cagtctcgta | gtgttatgtc | tgaccagtgt  | gctggacagt  | ggttcctgaa  | ggcctgtggc | 1500 |
| taggagaagg | agacactgag | gtgtttccta  | cccaacatgt  | ggtccgtgct  | ctccaaata  | 1560 |
| tctttgagct | gaacgtccag | gcctttgcag  | gagggggccat | gggggctgtg  | aatgggatgc | 1620 |
| agccccatgg | tgtccctgat | aaatccagtg  | tgcagtctga  | tgaagtctgg  | gtgggtgtgg | 1680 |
| tctacgggct | ggcagctacc | atgatccaag  | agggcctgac  | ttgggagggc  | ttccagacag | 1740 |
| ctgaaggctg | ctaccgtacc | gtgtgggagc  | gcctgggtct  | ggccttccag  | accccagagg | 1800 |
| catactgcca | gcagcgagtg | ttccgctcac  | tggcctacat  | gcggccactg  | agcatatggg | 1860 |
| ccatgcagct | agccctgcaa | cagcagcagc  | acaaaaaggc  | ctcctggcca  | aaagtcaaac | 1920 |
| agggcacagg | actaaggaca | gggcctatgt  | ttggaccaaa  | ggaagccatg  | gaaacctga  | 1980 |
| gcccagatg  | agcgtgtga  | actgtgggag  | ggaagtgtca  | acagcccagc  | ctccagcctg | 2040 |
| gcctttcctc | cttccctctc | gaacctcctg  | caacctgag   | ccatcaggac  | aatcataccc | 2100 |
| cttcccttct | ctccacccaa | ttgtgccagt  | aaatgggggt  | tgagggtgac  | ctaggcagca | 2160 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ttagaatcac | ttattttatt | ctttcctcac | ctgttccttg | actgcgtgaa | atgttcaggg | 2220 |
| aggtcagttg | atttccccag | gtacattcat | ggtgtgacag | acacatgggt | acaaataaaa | 2280 |
| gaccagaaa  | gccaaaaaaa | aaaaaaaaaa | aaaactcgag | ggggggcccg | gnaccaatt  | 2340 |
| cg         |            |            |            |            |            | 2342 |

<210> 708  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 708  |            |            |            |            |             |     |
| ggcacgagct | agctgccgcc | acccgaacag | cctgtcctgg | tgccccggct | ccctgccccg  | 60  |
| cgcccagtc  | tgaccctgcg | cccctcactc | ctcccgctcc | atctgctgct | gctgctgctg  | 120 |
| ctcagtgcgg | cggtgtgccg | ggctgaggct | gggctcgaaa | ccgaaagtcc | cgcccgacc   | 180 |
| ctccaagtgg | agaccctggt | ggagccccc  | gaaccatgtg | ccgagcccg  | tgcttttgga  | 240 |
| gacacgcttc | acatacacta | cacgggaagc | ttggtagatg | gacgtattat | tgacacctcc  | 300 |
| ctgaccagag | accctctggt | tatagaactt | ggccaaaagc | aggatgatcc | aggctctggag | 360 |
| cagagtcttc | tcgacatgtg | tgtgggagag | aagcgaagg  | caatcattcc | ttctcacttg  | 420 |
| gcctatggaa | aacggggatt | tccaccatct | gtcccagcgg | atgcagtgg  | gcagtatgac  | 480 |
| gtggagctga | ttgcactaat | ccgagccaac | tactggctaa | agctggtgaa | gggcattttg  | 540 |
| cctctggtag | ggatggccat | ggtgccagcc | ctcctgggcc | tcattgggta | tcacctatac  | 600 |
| agaaaggcca | atagacccaa | agtctccaaa | aagaagctca | aggaagagaa | acgaaacaag  | 660 |
| agcaaaaaga | aataataaat | aataaatttt | aaaaaaaaaa | aaaaaaaaaa | aaaaaaa     | 717 |

<210> 709  
 <211> 713  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (27)..(27)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 709  |            |            |            |            |            |     |
| ccgcgggaac | gctgtcctgg | ctgccgnac  | ccgaacagcc | tgctcctgg  | ccccggctcc | 60  |
| ctgccccgcg | cccagtcagt | accctgcgcc | ctcactcct  | cccgtcccat | ctgctgctgc | 120 |
| tgctgctgct | cagtgcggcg | gtgtgccggg | ctgaggctgg | gctcgaaacc | gaaagtccc  | 180 |
| tccggaccct | caaagtggag | accctgggtg | agccccaga  | accatgtgcc | gagcccgctg | 240 |
| cttttgagga | cacgcttcac | atacactaca | cggaagctt  | ggtagatgga | cgtattattg | 300 |
| acacctccct | gaccagagac | cctctgggta | tagaacttgg | ccaaaagcag | gtgattccag | 360 |
| gtctggagca | gagtcttctc | gacatgtgtg | tgggagagaa | gcgaaggcca | atcattcctt | 420 |
| ctcacttggc | ctatggaaaa | cggggatttc | caccatctgt | cccagcggat | gcagtgggtc | 480 |
| agtatgacgt | ggagctgatt | gcactaatcc | gagccaacta | ctggctaaag | ctgggtgaag | 540 |
| gcattttgcc | tctggtagg  | atggccatgg | tgccaccctc | ctgggctca  | ttgggtatca | 600 |
| cctatacaga | aaggccaata | gacccaaagt | ctccaaaaag | aagctcaagg | aagagaaacg | 660 |
| aaacaagagc | aaaaagaaat | aataaataat | aaatttttaa | aaacttaaaa | aaa        | 713 |

<210> 710  
 <211> 1165  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 710  |            |            |            |            |            |     |
| ggcacgagcc | ggtatgtggc | cccgtctggc | tagtcccgcc | tagcgcgccc | atttcgagcc | 60  |
| caagtttcca | gctcgggttt | ccaggctcag | aattttccag | gagtaggttc | ttgggcagtg | 120 |
| gctgtgggag | ctggaatggc | gcagctggaa | ggttactatt | tctcggccgc | cttgagctgt | 180 |

|             |             |             |            |             |            |      |
|-------------|-------------|-------------|------------|-------------|------------|------|
| accttttttag | tatcctgcct  | cctctttctcc | gccttcagcc | gggcgttgcg  | agagccctac | 240  |
| atggacgaga  | tcttccacct  | gcctcaggcg  | cagcgctact | gtgagggccca | tttctccctt | 300  |
| tcccagtggg  | atcccacgat  | tactacatta  | cctggcttgt | acctggtgtc  | aattggagtg | 360  |
| atcaaacctg  | ccatttggat  | ctttggatgg  | tctgacatg  | ttgtctgctc  | cattgggatg | 420  |
| ctcagatttg  | ttaatcttct  | cttcagtgtt  | ggcaacttct | atttactata  | tttgcttttc | 480  |
| tgcaaggtag  | aaccagaaaa  | caaggctgcc  | tcaagtatcc | agagagtctt  | gtcaacatta | 540  |
| acactagcag  | tattttccaac | actttatatt  | tttaacttcc | tttattatac  | agaagcagga | 600  |
| tctatgtttt  | ttactctttt  | tgcgtatttg  | atgtgtcttt | atggaaatca  | taaaacttca | 660  |
| gccttccttg  | gattttgtgg  | cttcagtgtt  | cggcaaacaa | atatcatctg  | ggctgtcttc | 720  |
| tgtgcaggaa  | atgtcattgc  | acaaaagtta  | acggaggctt | ggaaaactga  | gctacaaaag | 780  |
| aaggaagaca  | gacttccacc  | tattaaagg   | ccatttgcag | aattcagaaa  | aattcttcag | 840  |
| tttcttttgg  | cttattccat  | gtccttttaa  | aacttgagta | tgcttttgct  | tctgacttgg | 900  |
| ccctacatcc  | ttctgggatt  | tctgttttgg  | gcttttgtag | tagttaatgg  | tggaattggt | 960  |
| attggcgatc  | ggagtagtca  | tgaagcctgt  | cttcattttc | ctcaactatt  | ctactttttt | 1020 |
| tcattttact  | tctttttttc  | ctttcctcat  | ctcctgtctc | aacaaataaa  | taaataaaca | 1080 |
| taaatgcatg  | cattcataca  | tacaattgat  | aaatctaata | ttggccaaaa  | aaaacccaaa | 1140 |
| acaaaataaa  | aaaaaaaaaa  | aaaaa       |            |             |            | 1165 |

<210> 711

<211> 1160

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (345)..(345)

<223> n equals a,t,g, or c

<400> 711

|             |             |            |            |              |             |      |
|-------------|-------------|------------|------------|--------------|-------------|------|
| gccggtatgt  | ggcccygtct  | ggctagtccy | gyctagcgcg | cccatttcga   | gccaagttt   | 60   |
| ccagctcggg  | tttccrggct  | cagaattttc | caggagtrgg | ttcttgggca   | gtggcttgg   | 120  |
| gagcwggaa   | ggcgcagctr  | garggttact | rtttctcgge | cgccttgagc   | tgtacctttt  | 180  |
| tagtrtcctg  | cctcctcttc  | tccgccttca | gcggggcggt | gcgagagccc   | tacatggagc  | 240  |
| agatcttcca  | cctgcctcag  | gcgcagcgct | actgtgaggg | ccattttctc   | ctttcccagt  | 300  |
| gggatcccat  | gattactaca  | ttacctggct | tgtacctggt | gtcanttgga   | gtgrtcaaac  | 360  |
| ctgccatttg  | gatcttttga  | tggcttgaac | atgttgtctg | ctccattggg   | atgctcagat  | 420  |
| ttgttaaatc  | tctcttcagt  | gttggaact  | tctatttact | atatttgctt   | ttctgcaagt  | 480  |
| acaaccagga  | aacaaggctg  | cctcaagtat | ccagagagtc | ttgtcaacatta | aacactagc   | 540  |
| agtattttcca | acactttatt  | tttttaacty | cctttattat | acagaagcag   | gatctatggt  | 600  |
| ttttacyctt  | tttgcgatatt | tgatgtgtct | ttatggaaat | cataaaactt   | cagccttcct  | 660  |
| tggatttttg  | ggcttcagt   | ttcggcaaac | aaatatcatc | tgggctgtct   | tctgtgcagg  | 720  |
| aatgtcatt   | gcacaaaagt  | taacggaggc | ttggaaaact | gagctacaaa   | agaaggaaga  | 780  |
| cagacttcca  | cctattaaag  | gaccatttgc | agaattcaga | aaaattcttc   | agtttctttt  | 840  |
| ggcttattcc  | atgtccttta  | aaaacttgag | tatgcttttg | cttctgactt   | ggccctacat  | 900  |
| ccttctggga  | tttctgtttt  | gtgcttttgt | agtagttaat | ggtggattg    | ttattggcga  | 960  |
| tggagtagt   | catgaagcct  | gtcttcattt | tcctcaacta | ttctactttt   | tttcattttac | 1020 |
| tctctttttt  | tcctttcctc  | atctcctgtc | tcaacaaata | aataaataaa   | cataaatgca  | 1080 |
| tgcattcata  | catacaattg  | ataaatctaa | tcttggccaa | aaaaaaccca   | aaacaaaata  | 1140 |
| aaaaaaaaaa  | aaaaaaactc  |            |            |              |             | 1160 |

<210> 712

<211> 979

<212> DNA

<213> Homo sapiens

<400> 712

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| ctcatgtggg | gagatgagcg | tctttctcct | gggaccgaag | agggaacaag | acggagaagg | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| aagaggcggg | gctgcgactg | tscccagcgt | actgccgggc  | tgccgggtcc  | ctgctctggg | 120 |
| tacttctctg | ctttcggggc | tctcgtctag | aagctgcagc  | ttggcctgtc  | tcacctctac | 180 |
| acagaggggc | tgctggcgcc | tgacggaaaa | aggtccacac  | acccgatggc  | cggcccgggg | 240 |
| tggacgctgc | tgctactgct | gctgctgctg | ctgctgctgg  | ggcccatggc  | agggtatggg | 300 |
| ccacagaaga | agttgaacct | gtcccataag | ggcatcgggg  | agccatgcgg  | gagacacgag | 360 |
| gagtgccaga | gcaactgctg | taccatcaac | agcctggccc  | cacacacgct  | ctgcaccct  | 420 |
| aagaccatct | tctgcagtg  | cctgccctgg | aggaagccca  | atgggtacag  | atgctcgcac | 480 |
| gactcagagt | gccagagcag | ctgctgcgtc | cgcaacaacag | ccccgcagga  | gttgtgcacg | 540 |
| cccaaagcg  | tcttcctgca | gtgtgtgccc | tggcgcaagc  | ccaacggcga  | cttctgcagc | 600 |
| agccatcarg | agtgtcacag | ccagtgctgc | atccagctga  | gggagtacag  | ccccttcgcg | 660 |
| tgcattcccc | ggaccgggat | cctggcccag | tgccctgccc  | tgtgatgtga  | gctcgaacct | 720 |
| gggcgcgagg | gaccggcctg | ggcctggga  | tgttcacgca  | ggaccgcgtt  | gcgcgggggc | 780 |
| tggttccagc | ggaagcttcc | cttacggttt | gtgctgctgt  | ttctggggct  | ctgaaaatct | 840 |
| gtgggaactg | aaaggctgtg | accagcctgg | tggcgcgaa   | gtgtctgtgag | aacaaatccc | 900 |
| aggcactggg | gtgtagcctg | attgttaa   | atcmtaaag   | gctcctggcc  | gactgaaaaa | 960 |
| aaaaaaaaaa | aaaactcga  |            |             |             |            | 979 |

<210> 713  
 <211> 680  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (22)..(22)  
 <223> n equals a,t,g, or c

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 713  |             |             |             |            |            |     |
| cactcantng | aacannagct  | cnagctccac  | cgcgtggcg   | gccgctctag | aactagtgga | 60  |
| tcccccgggc | tgacaggaatt | cggcacgaga  | tatttcgctg  | gaccctagaa | aagccaccac | 120 |
| gacctgtggg | ccatgatgct  | acccaatgg   | ctgctgctgc  | tgttccttct | cttcttcttt | 180 |
| ctcttcctcc | tcaccagggg  | ctcactttct  | ccaacaaaat  | acaacctttt | ggagctcaag | 240 |
| gagtcttgca | tccggaacca  | ggactgcgag  | actggctgct  | gccaacgtgc | tccagacaat | 300 |
| tgcgagtgcg | actgcgcgga  | gaagggtcc   | gagggcagtc  | tgtgtcaaac | gcaggtgttc | 360 |
| tttggccagt | atagagcggtg | tccctgcctg  | cggaaacctga | cttgtatata | ttcaaagaat | 420 |
| gagaaatggc | ttagcatcgc  | ctatggccg   | tgtcagaaaa  | ttggaaggca | gaagttggct | 480 |
| aagaaaatgt | tcttctagt   | ctccctcctt  | cttgctgsct  | cctcctycty | cacctgctct | 540 |
| cctccctacc | cagagctctg  | tgktcacccct | gttccccaga  | gcctccacca | tgagtggagg | 600 |
| gaagtgggga | gtgattgaaa  | taaagagctt  | tttcaatgaa  | aaaaaaaaaa | aaaaaaaaaa | 660 |
| aaactcagag | gggggcccgg  |             |             |            |            | 680 |

<210> 714



<211> 1188  
 <212> DNA  
 <213> Homo sapiens

<400> 714  
 gctcgaactc tccactgtcc ccatttctctg caacagcattc tcagagggct tgaggtggct 60  
 atcaggcctt ccatacacagc ataaagctcc ttcagggaga gaagagcgaa ggcacccagr 120  
 ctggggaaca gcagctccta ctatacctac cctgcccact ctgggtccaac cgtgggcttg 180  
 gcctgacttt agactggaac cccttagtgc tcctgttcct ggtgtggagc agatccacct 240  
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 ccaagcctgc cctccccagt ggaagaagag ggccgtcttg tgaaaggcct caggctgacc 360  
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 gcgtggggcc agcccaggac acatcagccc gacactccaa attctatcaa gagtggcatt 480  
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 ctttctcctt aggtaggtag acaggagtat ggggtggggg gaggtggggg cgcctgtgtg 960  
 tgcgtgtgca tgcggcacag gtgggcaggc cccagcttgg gagctgtgca ggcaccacac 1020  
 ctggttgtgt aggggtgttt gatgtgggca ctgctgtgca gagcgggtgg tcatccttgt 1080  
 gggggcagcc acgcttgctg ctgggggtga ggctggccac accataggt acagctggca 1140  
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<210> 715  
 <211> 1342  
 <212> DNA  
 <213> Homo sapiens

<400> 715  
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 ggtcatgcca ggcacacact gctgcccagg aggagctgct gtttgaatta tctgtgaatg 180  
 ttgggaagag gaatgccaga gctgcccgtt gaaaattacc caaccaagag aaatctgcag 240  
 gatggacttt ctggctcctt tcttgttcta cctggcttcg gtgctgagg gtcttgttct 300  
 tatctgcgtc tgctcgaaaa cccatagctt gaaaggcctg gccaggggag gagcacagat 360  
 attttctctg ataattccag aatgtcttca gagagcortg catggattgc ttcattacct 420  
 tttccatacg agaaaccaca ccttcattgt cctgcacctg gtcttgcaag gcatggttta 480  
 tactgagtac acctggggaa gtatttggct actgtcagga gctggagttg tccttgcat 540  
 accttcttct gccctatctg ctgctagggt taaacctgtt ttttttccac ctgacttgtg 600  
 gaaccaatcc tggcattata acaaaagcaa atgaattatt atttcttcat gtttatgaat 660  
 ttgatgaagt gatgtttcca aagaacgtga ggtgctctac tgtgattta aggaaaccag 720  
 ctcatgcca gcaactgcagt gtgtgtaact ggtgtgtgca ccgtttcgac catcactgtg 780  
 tttgggtgaa caactgcate ggggccttga acatcaggta cttcctcacc tacgtcttga 840  
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 tggatgagtc agatttatac caggagactt acatcgatga ccttggaacac ctccatgta 960  
 tggacacggc ctttcttatt cagtacctgt tcctgacttt tccacggatt gtcttcatgc 1020  
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 tggcggccac caaccagact actaacgagt ggtacagg tgactgggcc tgggtgccagc 1140  
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 cccatgggct tcggagcaac cttcaagaga tctttctacc tgcccttcca tgtcatgaga 1260  
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 acatgtggat cctcgttttc ca 1342

<210> 716

<211> 1955  
 <212> DNA  
 <213> Homo sapiens

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<400> 716
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ttcatagaaa tggagataga agctaccaat ggtgcggtgc cccagggcca gcgaccaccg      180
cctcgtatca agaatttcca gataaacaac cagattgtga aactgaaata ctgttacaca      240
tgcaagatct tccggcctcc ccgggcctcc cattgcagca tctgtgacaa ctgtgtggag      300
cgcttcgacc atcactgccc ctgggtgggg aattgtgttg gaaagaggaa ctaccgctac      360
ttctacctct tcatccttct tctctccctc ctcaaatct atgtcttcgc cttcaacatc      420
gtctatgtgg ccctcaaatt tttgaaaatt ggcttcttgg agacattgaa aggaaactcc      480
tggaactggt ctagaagtcc tcatttgctt ctttactctc tgggtccgtcg tgggactgac      540
tggatttcat actttcctcg tggctctcaa ccagacaacc aatgaaagac atcaaaggat      600
catggacagg gaagaatcgc gtccagaatc cctacagcca tggcaatatt gtgaagaact      660
gctgtgaagt gctgtgtggc cccttgcccc ccagtgtgct ggatcgaagg ggtatttttg      720
cactggagga aagtggaaagt cgacctccca gtactcaaga gaccagtagc agcctcttgc      780
cacagagccc agccccaca gaaacactga actcaaata gatgccggag gacagcagca      840
ctcccgaaga gatgccacct ccagagcccc cagagccacc acaggaggca gctgaagctg      900
agaagttagc tatctatgga agactttt gtttgtgttt aattagggct atgagagatt      960
tcaggtgaga agttaaacct gagacagaga gcaagtaagc tgtccctttt aactgttttt      1020
cttttgtctt tagtcaccca gttgcacact ggcattttct tgctgcaagc ttttttaaat      1080
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cacagagacc tctggccagg ggatcctaac tgggttcttg ggtcttcag gactgaagag      1380
gagggagagt ggggtcagaa gattctcctg gccaccaagt gccagcattg cccacaaatc      1440
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gtctcccatc cactctgaca ccttaagccc cactcttttc ccattagatatatgtaagta      1560
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cccattagga gcaggaatgg cagtaataaa agtctgcact ttggtcattt cttttcctca      1800
gaggaagcct gagtgtctac ttaaactact tcccctcaga ctccctgtgt gaggcctgca      1860
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tccccgatg taccctcaaa aaaaaaaaaa aaaaaa      1955

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<210> 717  
 <211> 1338  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (133)..(133)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (867)..(867)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1338)..(1338)

<223> n equals a,t,g, or c

<400> 717

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| tctccctggc  | gtttgggtcac | ctctgcttca | ttctccaccg | cgcctatggt  | ccctcttgga  | 120  |
| gccagcgtgg  | cgngcctggc  | ggctcccggg | tgggagaga  | gcgggtccggg | aacgatgaag  | 180  |
| gcctcgagct  | gctgctgctg  | tctcagccac | ctcttggtct | ccgtcctcct  | cctgctgttg  | 240  |
| ctgcctgaac  | taagcgggyc  | cctggmagtc | ctgctgcagg | cagccgaggc  | cgcgccaggc  | 300  |
| yttgggcctc  | ctgaccctag  | accaggacat | taccgccgct | gccaccgggc  | cctwaccct   | 360  |
| gcccagcagc  | cgggcccgtg  | tctggctgaa | gctgcggggg | ccgcggggct  | ccgagggagg  | 420  |
| caatggcagc  | aaccctgtgg  | ccgggcttga | gacggacgat | cacggaggga  | aggccgggga  | 480  |
| argctcgggt  | ggtggcggcc  | ttgctgtgag | ccccaaccct | ggcgacaagc  | ccatgaccca  | 540  |
| gcgggcccctg | accgtgttga  | tggtggtgag | cggcgcggtg | ctgggtgtact | tcgtgggtcag | 600  |
| gacggtcagg  | atgagaagaa  | gaaaccgaaa | gactaggaga | tatggagttt  | tggaactaa   | 660  |
| catagaaaat  | atggaattga  | cacctttaga | acaggatgat | gaggatgatg  | acaacacgtt  | 720  |
| gtttgatgcc  | aatcatcctc  | gaagataaga | atgtgccttt | tgatgaaaga  | actttatct   | 780  |
| tctacaatga  | agagtggaa   | ttctatgttt | aaggaataag | aagccactat  | atcaatgttg  | 840  |
| ggggggtatt  | taagttacat  | atatttnaac | aacctttaat | ttgctgttgc  | aataaatacc  | 900  |
| gtatcctttt  | attatatctt  | tatatgtata | gaagtactct | gttaatgggc  | tcagagatgt  | 960  |
| tggggataaaa | gtatactgta  | ataatttatc | tgtttgaaaa | ttactataaaa | acgggtgtttt | 1020 |
| ctgrtcgggt  | tttgtttcct  | gcttaccata | tgattgtaaa | ttgttttatg  | tattaatcag  | 1080 |
| ttaatgctaa  | ttatttttgc  | tgatgtcata | tgttaaagag | ctataaattc  | caacaaccaa  | 1140 |
| ctgggtgtgta | aaaataattt  | aaaatytcct | ttactgaaag | gtatttccca  | ttttgtggg   | 1200 |
| gaaaagaagc  | caaattttatt | actttgtgtt | ggggttttta | aaatattaag  | aaatgtctaa  | 1260 |
| gttattgttt  | gcaaaaacaat | aaatatgatt | ttaaattctc | ttaaaaaaaa  | aaaaaaaaaac | 1320 |
| cccggggggg  | ggccccgn    |            |            |             |             | 1338 |

<210> 718

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (337)..(337)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (359)..(359)

<223> n equals a,t,g, or c

<400> 718

|            |            |            |            |            |             |     |
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| ggtgggtgac | cagagagtcc | tgtctatcct | aggaggagaa | cattcagcc  | aaatcccagc  | 60  |
| cccatcatgc | acagatcaga | gccatttctg | aaaatgtcgc | tgctgattct | gcttttcctg  | 120 |
| ggattggcag | aagcctgtac | tcctcgtgaa | gtcaacttgc | tgaaagggat | cataggtctc  | 180 |
| atgagcagac | tgtcaccgga | tgagatccta | ggcttgctga | gcctccaagt | actgcatgaa  | 240 |
| gaaacaagtg | gctgcaagga | ggaagttaaa | cccttctcag | gcaccacccc | atccaggaaa  | 300 |
| ccactcccca | agagggaaga | acacgtggaa | yttcctngaa | atgcgsetac | atgggtgrtng | 360 |
| acctacctct | tcgtatccta | caacaaaggg | gactggttca | ctttttcctc | ccaagtgtta  | 420 |
| ctgccaytac | tgtaacttgg | aactggacat | cagggatgat | cctgctgtt  | ctttctagt   | 480 |
| agcctgctcc | atctcagctt | agccttcaca | aggcctccat | ctcccaggca | ttctaaccctc | 540 |
| tgaagaaagc | tctctgtccc | ctggactgcc | tgtgtggagg | gtaatgaact | gggtccttta  | 600 |
| aggaatggca | cctgggtgcc | cagaggcatg | gccagaaggt | gtctgtgggg | gccatgcctt  | 660 |
| agggggatgc | acccagggcg | gctgagagag | caactgcagg | agtttccct  | aaaatctctc  | 720 |
| ctccagatcg | ttctcgaact | ttcccacta  | cttcataat  | aaaatgtata | cttgttgaaa  | 780 |
| aaaaaaaaaa | aaaaaactcg | ag         |            |            |             | 802 |

<210> 719  
 <211> 1251  
 <212> DNA  
 <213> Homo sapiens

<400> 719  
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 agctcattgc tccactggag ggctacactc ggagtcgcc aatcgttttt atcctgctca 180  
 ggaccgtgtt tcttcgcctc gctcctctgg tggctctgct cttctctctc tggaatcaga 240  
 tcaattgttg gggcgactcc gaggtgagg actgcaaaac ctgtggctac aattacaaac 300  
 aacttccgtg ctggagact gtcctgggcc aggaatgta caaacttctg ctctttgatc 360  
 tgctgactgt cttggcagtc gcgtgctca tccagttcc tagaaagctc ctctgtggcc 420  
 tctgtcctgg ggcgtgggt cgtctggcgg ggaccagga gttccagggtg cccgacgagg 480  
 tgctggggct catctacgcg cagacgggtg tctgggtggg gagttttttc tgccctttac 540  
 tgcccctgct taacacggtc aagttcctgc tgcctttcta cctgaagaag cttaccctct 600  
 tctccacctg ctccccggct gcccgcacct tccgggcctc cgcggcgaat ttctttttcc 660  
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 tgatcccgcc ttctaagact tgtgggtccat tccgggggca gtcgtccatc tgggcccaga 780  
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 cccaggcttt tgctgtgccc cttctgctga tctccagcat cctgatggcg tacactgtgg 900  
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 cgcagaataa agtcttcctg gcacggcgcg ctgtggcgct gacctccacc aaaccggctc 1020  
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 gagatttcca gggcccctcg ccgccacgtc cctgactctc ggggtgatctt ccttgtatca 1200  
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<210> 720  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 720  
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 ggcgtacact gtggctcttg ctaactccta cggacgcctc atctctgagc tcaaacgtca 180  
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 caccaaaccg gctctttgac ccccgacgac cagctccgcg tttcagacct caggcccatt 300  
 gtaagcctag gtcacaacat ctgttaacta ggagaactgg agaagactcc acgcccttcc 360  
 agcttttgta tctggagatt tccaggggcc ctgcgcgcca cgctccctgac tctcgggtga 420  
 tcttccttgt atcaataaat acagccgagg ttgctgaaaa aaaaaaaaaa aaaaaaaaaa 480  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aactcga 517

<210> 721  
 <211> 1441  
 <212> DNA  
 <213> Homo sapiens

<400> 721  
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 cggccgggtc ccgatgagcc tccgtgttgc tccgctggcg ctgctgctgc ttctcgcggc 120  
 gcttgtggcc ccagccacag ccgactgc ctaccggccg gactggaacc gtctgagcgg 180  
 cctaaccgcg gcccggttag agacctgcgg gggatgacag ctgaaccgcc taaaggagg 240  
 gagctttgaa ggaagaggtc cctagctctg ttcccctga gcctcttggg gagggtggca 300  
 catgggtcca atgactgggg cggggagggg ggaaggatcc ctaggctgag agtcagcct 360

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aggctgggag tctagcctgc acctgacttg ctttatgacc tcaactgggct tcaagtgtctc 420
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aggctttcgt cacgcaggac attccattct agtatccttc tgttctgggg gaggggaaat 540
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atgggggttg ggaggttctc ccaacccac tttcttcctt cccagctcc actaaattcc 1380
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c

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<210> 722
<211> 2674
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (2607)..(2607)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (2611)..(2611)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (2621)..(2621)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (2634)..(2634)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (2650)..(2650)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (2660)..(2660)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (2669)..(2669)  
 <223> n equals a,t,g, or c

<400> 722

|            |             |             |             |            |            |      |
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| gatccctccc | atctcacagt  | acctcacagg  | tctcttcccc  | cgagcagtgc | attgctggag | 60   |
| cgaggagaag | ctcacgaatc  | agctgcaggt  | ctctgttttg  | aaaaagcaga | gatacagagg | 120  |
| cagaggaaaa | gggtggactc  | ctatgtgacc  | tggtcttaga  | gcaagacaat | caccatctga | 180  |
| attccagaag | ccctgttcat  | ggttggggat  | atcttctga   | ctgcatggaa | tcagaaagaa | 240  |
| gcaaaaggat | gggaaatgcc  | tgcattcccc  | tgaaaagaat  | tgcttatttc | ctatgtctct | 300  |
| tatctgcgct | tttgctgact  | gaggggaaga  | aaccagcgaa  | gccaaaatgc | cctgccgtgt | 360  |
| gtacttgtag | caaagataat  | gctttatgtg  | agaatgccag  | atccattcca | cgcaccgttc | 420  |
| ctcctgatgt | tatctcatta  | tcctttgtga  | gatctggttt  | tactgaaatc | tcagaaggga | 480  |
| gttttttatt | cacgccatcg  | ctgcagctct  | tggtattcac  | atcgaaactc | tttgatgtga | 540  |
| tcagtgatga | tgcttttatt  | ggtcttccac  | atctagagta  | tttattcata | gaaaacaaca | 600  |
| acatcaagtc | aatttcaaga  | catactttcc  | gggactaaa   | gkcatatt   | cacttgagcc | 660  |
| ttgcaaacia | caatctccag  | acactcccaa  | aagatatttt  | caaaggcctg | gattctttta | 720  |
| caaagtgtga | cctgaggggt  | aattcattta  | attgtgactg  | taaactgaaa | tggttagtgg | 780  |
| aatggcttgg | scacaccaat  | gcaactgttg  | aagacatcta  | ctgcgaaggc | cccccagaat | 840  |
| acaagaagcg | caaaatcaat  | agtctctcct  | cgaaggattt  | cgattgcata | attacagaat | 900  |
| ttgcaaagtc | tcaagacctg  | ccttatcaat  | cattgtccat  | agacactttt | tcttatttga | 960  |
| atgatgagta | tgtagtcatc  | gctcagcctt  | ttactggaaa  | atgcattttc | cttgaatggg | 1020 |
| accatgtgga | aaagaccttc  | cggaattatg  | acaacattac  | aggcacatcc | actgtagtat | 1080 |
| gcaagcctat | agtcattgaa  | actcagctct  | atgttattgt  | ggcccagctg | tttggtggct | 1140 |
| ctcacatcta | taagcgagac  | agttttgcaa  | ataaattcat  | aaaaatccag | gatattgaaa | 1200 |
| ttctcaaaat | ccgaaaaccc  | aatgacattg  | aaacattcaa  | gattgaaaac | aactggact  | 1260 |
| ttgttgttgc | tgacagttca  | aaagctgggt  | ttactaccat  | ttacaaatgg | aacggaaacg | 1320 |
| gattctactc | ccatcaatcc  | ttacacgcgt  | ggtacaggga  | cactgatgtg | gaatatctag | 1380 |
| aaatagtcag | aacacctcag  | acactcagaa  | cgctcattt   | aattctgtct | agtagttccc | 1440 |
| ascgtcctgt | aattttatcag | tggaacaaag  | caacacaatt  | attcactaac | caaactgaca | 1500 |
| ttcctaacat | ggaggatgtg  | tacgcagtga  | agcacttctc  | agtgaagggg | gacgtgtaca | 1560 |
| tttgcttgac | aagattcatt  | ggtgattcca  | aagtcatgaa  | atggggaggc | tcctcgttcc | 1620 |
| aggatattca | gaggatgcca  | tcgcgaggat  | ccatgggtgt  | ccagcctctt | aaataaata  | 1680 |
| attaccaata | tgcaattctt  | ggaagtgatt  | actcctttac  | tcaagtgtat | aactgggatg | 1740 |
| cagagaaagc | caaatttgtg  | aaatttcagg  | aattaaatgt  | tcaggcacca | agatcattca | 1800 |
| cacatgtgtc | cattaataag  | cgtaattttc  | tttttgcttc  | cagttttaag | ggaaatacac | 1860 |
| agatttacaa | acatgtcata  | gttgacttaa  | gcgcattgaa  | caccaaattc | tgtggctgcc | 1920 |
| atcagaaatt | ttctacagta  | catgaccggg  | atgaactcaa  | tgcatgatga | ctcttcttat | 1980 |
| cacacttgca | aatgaatgcc  | tttcaaacat  | tgagactgct  | agaaccaagc | actaccagta | 2040 |
| tctccatcct | taactgtcca  | gtccagtgat  | gtgggaagtt  | acctttata  | agacaaaatt | 2100 |
| taattgtgta | actgttcttt  | gcagtgaaga  | tgtgtaaata  | agcgtttaat | ggtatctgtt | 2160 |
| actccaaaaa | gaaatattaa  | tatgtacttt  | tccattttatt | tattcatgtg | tacagaaaca | 2220 |
| actgccaaat | aaaatgttta  | catttttcttt | cataaaaaaa  | aaaaaaaaaa | aactcgaggg | 2280 |
| ggggcccggg | acccaattcg  | ccctatagtg  | agtcgtatta  | caatttactg | gccgtcgttt | 2340 |
| tacaacgtcg | tgactgggaa  | aaccctggcg  | ttacccaact  | taatcgctt  | gcagcacatc | 2400 |
| cccttttcgc | cagctggcgt  | aatagcgaag  | aggcgcgacc  | gatcgccctt | cccaacagtt | 2460 |
| gcgcagcctg | aatggcgaat  | ggcaaatgtg  | aagcgttaata | ttttgttaa  | aattccgcgt | 2520 |
| taaattttgt | taaatcagct  | cattttttta  | cccaataggc  | cgaaattcgg | caaaaatccc | 2580 |
| ttattaatca | aaagaaatag  | aaccganaat  | nggggttgaa  | ntgttggttc | caantttggg | 2640 |
| aaacaaaaan | tcccacttan  | tttaaaagna  | aacg        |            |            | 2674 |

<210> 723  
 <211> 2207  
 <212> DNA  
 <213> Homo sapiens

<400> 723

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| ggcagcagca | cgaatcagct | gcaggtctct | gttttgaaaa | agcagagata | cagaggcaga | 60 |
|------------|------------|------------|------------|------------|------------|----|

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| ggaaaagggt  | ggactcctat  | gtgacctgtt | cttagagcaa  | gacaatcacc  | atctgaattc | 120  |
| cagaagccct  | gttcatgggt  | ggggatattt | tctcgactgc  | atggaaatcag | aaagaagcaa | 180  |
| aaggatggga  | aatgcctgca  | ttcccctgaa | agaattgct   | tatttcctat  | gtctcttatc | 240  |
| tgcgcttttg  | ctgactgagg  | ggaagaaacc | agcgaaccaa  | aatgcctgca  | cgtgtgtact | 300  |
| tgtaccaaag  | ataatgcttt  | atgtgagaat | gccagatcca  | ttccacgcac  | cgttcctcct | 360  |
| gatgttatct  | cattatcctt  | tgtgagatct | ggttttactg  | aaatctcaga  | agggagtttt | 420  |
| ttattcacgc  | catcgctgca  | gctcttggtt | ttcacatcga  | actcctttga  | tgtgatcagt | 480  |
| gatgatgctt  | ttattgggtc  | tccacatcta | gagtatttat  | tcatagaaaa  | caacaacatc | 540  |
| aagtcaattt  | caagacatac  | tttccgggga | ctaaagtc    | taattcactt  | gagccttgca | 600  |
| aacaacaatc  | tccagacact  | cccaaaagat | attttcaaag  | gcctggattc  | tttaacaaat | 660  |
| gtggacctga  | ggggtaattc  | atttaattgt | gactgtaaac  | tgaaatggct  | agtggaatgg | 720  |
| cttgggcaca  | tcaatgcac   | tggtgaagac | atctactcgc  | aaggccccc   | agaatacaag | 780  |
| aagcgcaaaa  | tcaatagtct  | ctcctcgaag | gatttcgatt  | gcatcattac  | agaatttgca | 840  |
| aagtctcaag  | acctgcctta  | tcaatcattg | tccatagaca  | ctttttctta  | tttgaatgat | 900  |
| gagtatgtag  | tcacgctca   | gccttttact | ggaaaatgca  | ttttccttga  | atgggaccat | 960  |
| gtggaaaaga  | ccttccggaa  | ttatgacaa  | attacaggca  | catccactgt  | agtatgcaag | 1020 |
| cctatagtca  | ttgaaactca  | gctctatgtt | attgtggccc  | agctgttttg  | tggctctcac | 1080 |
| atctataagc  | gagacagttt  | tgcaaataaa | ttcataaaaa  | tccaggatat  | tgaaattctc | 1140 |
| aaaattccga  | aaccacaatga | cattgaaaca | ttcaagattg  | aaaacaactg  | gtactttgtt | 1200 |
| gttgctgaca  | gttcaaaaagc | tggttttact | accattttaca | aatggaacgg  | aaacggattc | 1260 |
| tactcccatc  | aatcctttaca | cgcgtggtac | agggacactg  | atgtggaata  | tctagaaata | 1320 |
| gtcagaacac  | ctcagacact  | cagaacgcct | catttaattc  | tgtctagtag  | ttcccaacgt | 1380 |
| cctgtaattt  | atcagtggaa  | caagcaaca  | caattattca  | ctaaccacaa  | tgacattcct | 1440 |
| aacatggagg  | atgtgtacgc  | agtgaagcac | ttctcagtga  | aaggggacgt  | gtacatttgc | 1500 |
| ttgacaagat  | tcattgggtga | ttccaaagtc | atgaaatggg  | gaggctcctc  | gttccaggat | 1560 |
| attcagagga  | tgccatcgcg  | aggatccatg | gtgttccagc  | ctcttcaaat  | aaaatttatt | 1620 |
| caatatgcaa  | ttcttgggaag | tgattactcc | tttactcaag  | tgtataactg  | ggatgcagag | 1680 |
| aaagccaaat  | ttgtgaaatt  | tcaggaatta | aatgttcagg  | caccaagatc  | attcacacat | 1740 |
| gtgtccatta  | ataagcgtaa  | ttttcttttt | gcttccagtt  | ttaagggaaa  | tacacagatt | 1800 |
| tacaaacatg  | tcatagtgtg  | cttaagcgca | tgagacacca  | aattctgtgg  | ctgccatcag | 1860 |
| aaatttttcta | cagtacatga  | cccggatgaa | ctcaatgcac  | gatgactctt  | cttatcacac | 1920 |
| ttgcaaataga | atgccttttca | aacattgaga | ctgctagaac  | caagcactac  | cagtatctcc | 1980 |
| atccttaact  | gtccagtcca  | gtgatgtggg | aagttacctt  | ttataagaa   | aaatttaatt | 2040 |
| gtgtaactgt  | tctttgcagt  | gaagatgtgt | aaataagcgt  | ttaatgggtat | ctgttactcc | 2100 |
| aaaaagaaat  | attaatatgt  | acttttccat | ttattttatt  | atgtgtacag  | aaacaactgc | 2160 |
| caaataaaat  | gtttacattt  | tctttcataa | aaaaaaaaaa  | aaaaaaa     |            | 2207 |

<210> 724  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (315)..(315)  
 <223> n equals a,t,g, or c

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 724   |            |             |            |             |             |     |
| cgccgcgcgc  | cgctacagcg | accctgaccg  | ccgtccgagc | cgccagacac  | ccagagagac  | 60  |
| gccagaggcc  | gcggaggggc | gaagacccgg  | agtaactctc | ccttcacccc  | caaccgggat  | 120 |
| cgccagccct  | cgagagctct | gtgctccacg  | ccgaggatgc | accgtctctg  | gattgggtccg | 180 |
| gccttcttcc  | taatgacatc | gctcagcgtc  | tctggagccg | tcatcccgcg  | gaatgggggc  | 240 |
| ccaggggggtg | tcagytcggg | gccttgccctc | ttgcagctac | tctgtgggtca | ggccgggtcc  | 300 |
| tccaccatca  | ggaanattcc | atcctgagct  | ctgtctcctg | cccctcctgc  | tgtgggatgc  | 360 |
| tgagcacaga  | gccacagcc  | catctgcctc  | ttcacctccc | tgaatccgtg  | tccatctgca  | 420 |
| ataaacgaca  | gcctcggtcg | cctcgtgctg  | aaaaaaaaaa | aaaaaaaaaa  |             | 470 |

<210> 725  
 <211> 1186  
 <212> DNA  
 <213> Homo sapiens

<400> 725  
 gaattcggca cgagattgaa tgttccagat aatccctttc ccagtcctgc ctgacatctg 60  
 ggtagggggt ttgtccctgg aattctggga cactggctgg ggtttgagga gagaagccag 120  
 tacctacctg gctgcaggat gaagctggcc agtggcttct tggttttgtg gctcagcctt 180  
 gggggtggcc tggctcagag cgacacgagc cctgacacgg aggagtccta ttcagactgg 240  
 ggccttcggc acctccgggg aagctttgaa tccgtcaata gctacttcga ttcttttctg 300  
 gagctgctgg gaggaagaa tggagtctgt cagtacaggt gccgatatgg aaaggcacca 360  
 atgccagac ctggctacaa gcccgaagag cccaatggct gcggctccta tttcctgggt 420  
 ctcaaggtac cagaaagtat ggacttgggc attccagcaa tgacaaagtg ctgcaaccag 480  
 ctggatgtct gttatgacac ttgcggtgcc acaaatatc gctgtgatgc aaaattccga 540  
 tgggtgtctcc amtcgatctg ctctgacctt aagcggagtc tgggctttgt ctccaaagtg 600  
 gaagcctgtg attccctggt tgacactgtg ttcaacaccg tgtggacctt gggctgccgc 660  
 ccctttatga atagtcagcg ggcagcttgc atctgtgcag aggaggagaa ggaagagtta 720  
 tgaggaagaa gtgattcctt cctggttttg agtgacacca cagctgtcag ccttcaagat 780  
 gtcaagctctt cgartcagcg tgactcattc gttctccaa cagtttggac accacaaagc 840  
 aggagaaagg gaacattttt ctacagctgg aaagtgagtc ctatcctttg aggaaatttg 900  
 aaaaaagaca tggagtgggt tgaaagctac tcttcattta agactgctct cccaaccaa 960  
 gacacatttg cctggaaatt cagttcttag cttaaagact aaaatgcaag caaacctgc 1020  
 aattcctgga cctgatagtt atattcatga gtgaaattgt ggggagtcca gccatttggg 1080  
 aggcaatgac tttctgctgg cccatgtttc agttgccagt aagcttctca catttaataa 1140  
 agtgtacttt ttagaacatt tggaaaaaaa aaaaaaaaaa actcga 1186

<210> 726  
 <211> 470  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (444)..(444)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (458)..(458)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (469)..(470)  
 <223> n equals a,t,g, or c

<400> 726  
 ctgcaggaat tcggcacgag cggcacgagt gccaatataa ctgctgtcgc cctcaatgcg 60  
 ccagcccacc ctgcaaggct cctaccacct ggaccgcag tagccctcct actgctccgg 120  
 gggagctgca gtctctgttg ctgccaccaa ccgcataagg cgagctgcaa agccatgcca 180  
 tctgcaggct ccaatgtacc atagatgact cctcctcttc ctccctcctcc agcctggctt 240  
 ggagcagcta gatgggcaaa gctagaaaag cctaaaacgg gatgcaggga gtggtagcat 300  
 tagagcctca cctgtgcacg ctggccactg ggtggcagg accagtttca gcaaaggcac 360  
 tcacaccac cctccaaagt ccagcctctm mttctggcaa aagctggcca gaactgggg 420  
 cccaggggtga gtgggtgtgc tttnccaaaa accagggnag gttatagcnn 470



<210> 727  
 <211> 1821  
 <212> DNA  
 <213> Homo sapiens

<400> 727  
 ggaattcggc acgagcgtgg atccaagatg gcgacggcga tggattgggt gccgtgggtct 60  
 ttactgcttt tctccctgat gtgtgaaaca agcgcccttct atgtgcctgg ggtcgcgcct 120  
 atcaacttcc accagaacga tcccgtagaa atcaaggctg tgaagctcac cagctctcga 180  
 acccagctac cttatgaata ctattcactg cccttctgcc agcccagcaa gataacctac 240  
 aaggcagaga atctgggaga ggtgctgaga ggggaccgga ttgtcaacacccctttccag 300  
 gttctcatga acagcgagaa gaagtgtgaa gttctgtgca gccagtccaa caagccagtg 360  
 accctgacag tggagcagag ccgactcgtg gccgagcgga tcacagaaga ctactacgtc 420  
 cacctcattg ctgacaacct gcctgtggcc acccggctgg agctctactc caaccgagac 480  
 agcgatgaca agaagaagga aagtgatatc aaatgggcct ctgctggga cacttactga 540  
 ccatgagtga cgtccagatc cactggtttt ctatcattaa ctccgttggt gtggtcttct 600  
 tcctgtcagg tatcctgagc atgattatca ttcggaccct ccggaaggac attgccaaact 660  
 acaacaagga ggatgacatt gaagacacca tggaggagtc tgggtgaag ttggtgcacg 720  
 gcgacgtctt caggcccccc ccagtacccc atgatcctca gctccctgct gggctcaggc 780  
 attcagctgt tctgtatgat cctcatcgtc atctttgtag ccattgcttg gatgctgtcg 840  
 ccctccagcc ggggagctct catgaccaca gcctgcttcc tcttcatgtt catgggggtg 900  
 tttggcggat tttctgctgg ccgtctgtac cgcactttaa aaggccatcg gtggaagaaa 960  
 ggagccttct gtacggcaac tctgtaccct ggtgtggttt ttggcatctg ctctgtattg 1020  
 aattgcttca tttggggaaa gcactcatca ggagcgggtg cttttccac catggtggct 1080  
 ctgctgtgca tgtggttcgg gatctccctg cccctcgtctacttgggcta ctacttcggc 1140  
 ttccgaaagc agccatatga caaccctgtg cgcaccaacc agattccccg gcagatcccc 1200  
 gagcagcggg ggtacatgaa ccgatttgtg ggcattcctca tggctgggat ctctgccttcg 1260  
 ggcgcatgtt catcgagctc ttcttcatct tcagtgtctat ctgggagaat cagttctatt 1320  
 acctcttttg ctctctgttc cttgttttca tcactctggt ggtatcctgt tcacaaatca 1380  
 gcacgtcat ggtgtacttc cagctgtgtg cagaggatta ccgctgggtg tggagaaatt 1440  
 tcctagtctc cgggggctct gcattctacg tcctggttta tgccatcttt tatttcgtta 1500  
 acaagtgact gcagcgccaa gcggcatcca ccaagcatca agttggagaa aagggaaacc 1560  
 aagcagtaga gagcgatatt ggagtctttt gttcattcaa atcttggatt ttttttttct 1620  
 cctaagagat tctcttttta gggggaatgg gaaacggaca cctcataaag ggttcaaaga 1680  
 tcatcaattt ttctgacttt ttaaatcatt atcattatta tttttaatta aaaaaatgcc 1740  
 tgtatgcctt tttttggtcg gattgtaaat aaatatacca ttgtcctaca aaaaaaaaaa 1800  
 aaaaaaactc gagggggggc c 1821

<210> 728  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<400> 728  
 ccacgcgtcc ggtgcacggc gacgtcttca ggccccca gtaccccatg atcctcagct 60  
 ccctgctggg ctacggcatt cagctgttct gtatgatcct catcgtcatc tttgtagcca 120  
 tgcttgggat gctgtcgccc tccagccggg gagctctcat gaccacagcc tgcttctct 180  
 tcatgttcat gggggtgttt ggcggatttt ctgctggccg tctgtaccgc actttaaaag 240  
 gccatcggtg gaagaaagga gccttctgta cggcaactct gtaccctggg gtggtttttg 300  
 gcatctgctt cgtattgaat tgcttcattt ggggaaagca ctcatcagga gcggtgccct 360  
 tccccacat ggtggtctct ctgtgcatgt ggttcgggat ctccctgcc ctctctact 420  
 tgggctacta ctctggcttc cgaaagcagc catatgacaa ccctgtgcgc accaaccaga 480  
 ttccccggca gatccccgag cagcgggtgg acatgaaccg atttgtgggc atcctcatgg 540  
 ctgggatctt gcccttcggc gccatgttca tcgagctctt ctcatcttc agtgctatct 600  
 gggagaatca gttctattac ctctttggct tcctgttcct tgttttcac atcctgggtg 660  
 tatcctgttc acaaatcagc atcgtcatgg tgtacttcca gctgtgtgca gaggattacc 720  
 gctggtggtg gagaaatttc ctagtctccg ggggctctgc attctacgtc ctggtttatg 780

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| ccatcttttta | tttcgttaac | aagctggaca | tctgtggagt | catcccctct | ctcctctact | 840  |
| ttggctacac  | ggccctcatg | gtttgtcct  | tctggctgct | aacgggtacc | atcggcttct | 900  |
| atgcagccta  | catgtttgtt | cgcaagatct | atgctgctgt | gaagatagac | tgattggagt | 960  |
| ggaccacggc  | caagcctgct | ccgtcctcgg | acaggaagcc | accctgcgtg | ggggactgca | 1020 |
| ggcacgcaaa  | ataaaataac | tctgtctcgt | ttggaatgta | aaaaaaaaaa | aaaaaaaaaa | 1080 |
| aaaaaaaaaa  | aaaa       |            |            |            |            | 1094 |

<210> 729  
 <211> 1042  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (941)..(941)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1016)..(1016)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1022)..(1022)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1028)..(1028)  
 <223> n equals a,t,g, or c

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 729   |            |            |            |            |             |     |
| ggttcgtcaa  | naaancttta | agaggtaccc | cccggaattt | ttgggtcgac | ccacgcgtcc  | 60  |
| gctttcttct  | atctcttggt | gatattatgg | ctaataacac | arcaagttta | gggagtcctat | 120 |
| ggccagaaaa  | cttttgggag | gaccttatca | tgtccttcac | tgtatccatg | gcaatcgggc  | 180 |
| tggtacttgg  | aggatttatt | tgggctgtgt | tcatttgtct | gtctcgaaga | agaagagcca  | 240 |
| gtgctccccat | ctcacagtgg | agttcaagca | ggagatctag | gtcttcttac | acccacggcc  | 300 |
| tcaacagaac  | tggattttac | cgccacagt  | gctgtgaacg | tcgaagcaac | ctcagcctgg  | 360 |
| ccagtctcac  | cttcacgcga | caagcttccc | tggaacaagc | aaattccttt | ccaagaaaaa  | 420 |
| caagtttcag  | agcttctact | ttccatccct | ttctgcaatg | tccaccactt | cctgtggaaa  | 480 |
| ctgagagtca  | gctggtgact | ctcccttctt | ccaatatctc | tcccaccatc | agcacttccc  | 540 |
| acagtctgag  | ccgtcctgac | tactggtcca | gtaacagtct | tcgagtgggc | ctttcaacac  | 600 |
| cgccccacc   | tgcttatgag | tccatcatca | aggcattccc | agattcctga | gtagggtggc  | 660 |
| ttttggtttt  | tgtttctttc | ttgtcttgtc | ttttattgaa | aggaaatcaa | aaataggcta  | 720 |
| aacagaattt  | tgagggcatg | gcāaaataa  | ctcatgagtt | ccaagttgaa | acatggttgt  | 780 |
| gcaagttgga  | cattacaatg | tāaaacacat | tttcttcaaa | cacgttttcc | cttttgtttc  | 840 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aaaaaatgta | atattttccc | ccaagcggtt | tatatttatg | tattttgtat | tcaatgtgag | 900  |
| gcttattaaa | aatagtgatt | ctaagtgaag | aatcagctaa | ngatgcatta | tattttttt  | 960  |
| aattaaaatt | aaaacttcag | awatttgkkg | gattacaatc | ccawttacyt | cccaangggg | 1020 |
| cnttaaangg | ggggaaaaaa | aa         |            |            |            | 1042 |

<210> 730  
 <211> 1556  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| <400> 730   |             |            |            |             |             |      |
| tttttttttt  | tttttttttt  | ttttgaata  | aaacttgaca | taaattttatt | tttatttcac  | 60   |
| aatccacaaa  | acattttcaaa | ttaaagaaat | acattaaaaa | tctccagttt  | ttgctttaat  | 120  |
| ttcacatttc  | atacactcac  | aatatttagg | aaatagtcac | tttgactgtc  | ttataactgg  | 180  |
| gataaggggtg | cagcaacaat  | tctgccagat | ggttaaatgc | cccagaggat  | tttgctctt   | 240  |
| ctcttcctaa  | tttgggagct  | ataaagcagt | ttttactccc | aacacaaatt  | cttgataaaa  | 300  |
| accatactct  | ttgctgattt  | ttcatgttag | acattaagga | tgacatgcaa  | gtaaaaaaaa  | 360  |
| aaaaaaaaaa  | aaaagtagcc  | ctgataccaa | gttaatatcc | ccttgaaacc  | ttacttggct  | 420  |
| gctaaatytc  | tttgttgaaa  | accaacttat | aacaaattgg | ttatccgggt  | agcttttttc  | 480  |
| cctttttctt  | ccattttctt  | cttgctccct | ctttctctta | ctttttcctt  | ttggcatggt  | 540  |
| taattagaga  | acattttcta  | taagcattat | taagaataat | tgctcttaag  | gaatgatgga  | 600  |
| taatataagg  | gaaatgaaaa  | taataaagaa | aatgctacac | ggaatctctt  | attcttgaac  | 660  |
| catgttcaga  | cactattagc  | tgtgaccact | gcaataggaa | atgaaaaaga  | gggtactttt  | 720  |
| tcactgaaaa  | tcccactggt  | caaagaaaca | aagaaacggc | cacataaact  | aaatattcac  | 780  |
| aatactggaa  | atgraccaca  | gactttttga | gtaatactcc | agtgaactca  | tgctcttaaa  | 840  |
| tgagaagggc  | agccacagac  | atctgcccac | tggaactctc | tggtggccac  | atttagggat  | 900  |
| gcattcttcc  | ttacaagggc  | agccacctgt | ggaagtggat | tcttaaataa  | ctgtgtgcac  | 960  |
| caaagaccat  | ctggcatggc  | ttaatcactg | tacagactct | gcagagaagt  | tggaattgag  | 1020 |
| attcgtagag  | aagcaaacca  | ggaatgatgc | ctgatgatta | aggtcaatc   | caggaaggag  | 1080 |
| aattcttcat  | gggcaacatc  | tatttcaata | acaaactctc | tccccagtga  | ctcactactta | 1140 |
| tttgtctgca  | aagttacaaa  | agaagatccc | cagagaaagt | gctttccaag  | ttgctagatg  | 1200 |
| taagtttaag  | aaagaaaatt  | tttcccttaa | gaaaaacgtg | agcttgggtt  | taaacttgag  | 1260 |
| gcttggtttt  | aggtcaaatg  | aattggattt | tttctgtttg | cttttctaac  | aatgtaacga  | 1320 |
| caacggtgaa  | gaaaaggtaa  | atcatcatgt | tagtaaatcc | aaggattttg  | cctccaggaa  | 1380 |
| gtagataact  | attcttggga  | aaaacacata | aagagtttgt | ccagaaaaaa  | ttagtgtcaa  | 1440 |
| aaatgaaaca  | tccaatgaca  | ccaaaagagt | tcagtttctt | gtgcttgagt  | cccacacttc  | 1500 |
| ttataatgat  | caaatcaagg  | aactttagaa | tgctctatgt | tctgtcattt  | tgtgcc      | 1556 |

<210> 731  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (584)..(584)  
 <223> n equals a,t,g, or c

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<400> 731
cctgtatata aaattggncn ctatgggtccc gtacaatgaa gaaatgcaaa gatagttaag      60
aaagactcgg ccttcaagga gcctaaatgt gtagaaaagg actaaggcaa aacaataact      120
tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttggt      180
cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa      240
tatggactct aaagctagat ttcagagggt tgaagtagct ctgctactta ctggctgtgt      300
gactttgagc agattactta acctgtctgt gcctatgttt acttttattg ttgtaaaaag      360
atatgcaaca taaaatattc catttcaacc gtttttacgt gtataactta ctgacattag      420
ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat      480
ataaagccct cagaagagtg tctggcæat ggtgagtatt ggctgtactg tggtcgatgt      540
cattgttaga gagcttttagt gatttgctta agacagaaag gtanactggg gtgcggtggg      600
ctcacgccct gggtta

```

```

<210> 732
<211> 1125
<212> DNA
<213> Homo sapiens

```

```

<400> 732
gtaccggtcc ggaattcccg ggtcgaccca cgcgtccgcc cacgcgtccg ctccccagta      60
gctgggatga ccggcactcg ccaccaagcc tagctaattt tttttgtatt ttgactagag      120
atgggggttt accatgttag tcaagctgct cttgttttgt tgttggtgtt gttgttggtg      180
ttgttggttg atactgagtc tcgctæagc ctggcgacag agcgagactc catctcaaaa      240
aaaaaaaaa aaaaaaccaa aaaaaaaaaa agaaaagaaa caaaaaacgt tgttttaatt      300
ttaattaact caaatagctt catgtggcta gctgccgccc tgtagaacag cacagttcta      360
gaactttcga gaccttctcc ctgttatcca cacttacttt acagagtaga ctcagoatt      420
cgagtcæcc cgtccttcagg ccaggccaaa tcttggtccc cagagcccag tgtggcagag      480
gccatcgaaa actgaccacac gcactctagc ccagccctgg atttacagcc aagcrtgta      540
tagggatggg tgactctttt gtttttgttt ttgttttgag ttgggtctct cgctctctca      600
cccaggctgg agtgcagtgg cataatcatg gctcgctgta gccttgacct cctgggctcg      660
ggccatcctc ctgcctcagc ctctgcaga actggggctg cgggcacatg ccaccacacc      720
cagctatttt ttattttatt tttttgtaga gtcagggtct cactgtgttg cccagactgg      780
tcttgaactc ctggcctcaa gctatcttcc tgccctggcc tcccaaagtg tgggattac      840
aggtgtgagc cactgtgcct ggccctcttg tgactctttg caagggcatt gctggctggc      900
tgatatggcc tgcagcctct gcctgtaacc atcagagcga tactctcatt atcggaagg      960
tgggacccmc cctggcccaa gagacagggc ctgttattcc actgtatgga ggagaagctg      1020
aggcttargg aaggcagatg acttggcaag gtcataaaga cagcaagctg caggaccagc      1080
tcattctaag gcatgaaccc cctggggggc caacttacca atgaa

```

```

<210> 733
<211> 2297
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (481)..(481)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1408)..(1408)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature

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<222> (2248)..(2248)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (2277)..(2277)  
 <223> n equals a,t,g, or c

<400> 733

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tcagtttgcc  | ctgcatgtgt  | acctggcccc  | ctcctgggcg  | gatacggcag  | gcaaacggtg  | 60   |
| caagggcggc  | tgccgggaga  | aggtgggcag  | ctggagtggg  | actgggggag  | acaggatcaa  | 120  |
| tgtgacctgc  | ggtggtcccc  | aggtggcccg  | gatgcagtac  | ctgcacggcg  | tccygggccc  | 180  |
| catcatcaac  | aaggtgtttg  | aggagaagta  | cgtggagctg  | gaccccagca  | aagtggawgt  | 240  |
| taaggatgta  | gggtgaggcc  | gggggtaact  | ccgggggktg  | cggggygcag  | cggcagcggg  | 300  |
| ttgggatcag  | gccctgtcag  | catgtgtgtt  | tgtgcttctg  | cccacccgtg  | tattgtcccc  | 360  |
| tgtgtccgtg  | tcctggctgc  | tgtgagagcc  | actgttcctg  | tcgtggccct  | ggcgctgacc  | 420  |
| gcgacctcct  | ctgccaaccc  | gccccgttcc  | acgcaggtgc  | tccgggctgc  | accgcccgca  | 480  |
| naccgaggcc  | gaggtgctgg  | agcagagcgc  | gcagacgctg  | cgcgcccacc  | tgggggcccct | 540  |
| gctgagcgcc  | ctcagccgct  | cggttcgcg   | gtgccccgcc  | gtggtgcgcg  | ccaccttccg  | 600  |
| ccagctcttc  | cggcgcgctg  | gcagcggytt  | ccccggcgcc  | cagcacgaga  | atgtaccgtt  | 660  |
| catcgccgtc  | accagcttcc  | tgtgcctgcg  | cttcttctct  | cccgccatca  | tgtcgcccaa  | 720  |
| gctcttccac  | ctgcgggagc  | gccacgcgga  | cgcccgcacc  | agccgcaccc  | tgtcctgttt  | 780  |
| ggccaaggca  | gtccagaacg  | tgggtaaaat  | ggacacgccg  | gcttccaggg  | ccaggaggc   | 840  |
| ttggatggag  | ccgctgcagc  | ccaccgtgcg  | ccaggggcgtg | gcgcagctga  | aggacttcat  | 900  |
| caccaagctc  | gtggacatcg  | aggagaagga  | cgagctggac  | ctgcagcgga  | cgctgagttt  | 960  |
| gcagcgccca  | cctgtgaagg  | agggggccact | cttcatccac  | aggaccaagg  | gcaaggggccc | 1020 |
| cctcatgtcc  | tcctccttca  | agaagctcta  | cttctccctc  | actaccgagg  | ccctcagctt  | 1080 |
| cgcgaaagacg | cccagctcca  | agaaaagcgc  | cctcatcaag  | ttagccaaca  | tccgggcagc  | 1140 |
| rgaaaagggtt | gaggaaaaga  | gctttggcgg  | ctgcacgctc  | atgcagggtca | tctacacgga  | 1200 |
| cgacgccggc  | aggccccaga  | ctgcctacct  | gcagtgcgaag | tgtgtgaa    | agcttaacca  | 1260 |
| gtggctgtct  | gcgctgcgga  | aggtgagcat  | caacaacacc  | ggactgctgg  | gctcctacca  | 1320 |
| ccctggcgctc | ttccgtgggg  | acaagtggag  | ctgctgccac  | caaaaagaga  | agacagggtca | 1380 |
| gggctgcgat  | aagaccgggt  | cacggtgnac  | cctgcaggag  | tggaaatgacc | ctcttgacca  | 1440 |
| tgcacttgag  | gcccagctca  | tctaccggca  | cctgctgggc  | gtggaggcca  | tgctgtggga  | 1500 |
| gaggcacccg  | gagctgagcg  | ggggcgcaga  | ggcaggcacg  | gtgcccacga  | gccctggcaa  | 1560 |
| agtccccgag  | gactcattgg  | cccggctgct  | ccgggtgctg  | caggacctcc  | gcgaggccca  | 1620 |
| tagctccagc  | ccggccggct  | ccccaccctc  | aragcccaac  | tgctcctgg   | agctgcagac  | 1680 |
| gtgaggcccg  | ccctacgctc  | cccttgctga  | gtcccctgcc  | aagcgctcgg  | agccccccca  | 1740 |
| ggacactctg  | cacccctca   | ccccggtcct  | cctcattagg  | gtgcagggcc  | taggtctctt  | 1800 |
| ccagtggtggg | gaggggggag  | agtcaggaat  | aaggggatcc  | ccagaagtgc  | agagctgagc  | 1860 |
| aggcttgggc  | ctgtcatggc  | tggccggaag  | tgtccccagc  | tccctacaga  | cgctgtagcc  | 1920 |
| atcactgcct  | ctccagggac  | cctcctctcc  | tgccaggagc  | agaccagcc   | agaaccactg  | 1980 |
| ctaggatggg  | ccgcacccag  | gggtctggcc  | tccagggacc  | tagagaatgg  | gagggagaac  | 2040 |
| ggggccccag  | gagacccggc  | cgccacccca  | cccgtacc    | ttgggtgcca  | cagggctgtg  | 2100 |
| ctgttgccaa  | cagtaaacct  | gctcttactg  | tcaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | 2160 |
| aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | 2220 |
| aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | aaaaaaaaaaa | 2280 |
| aaaaaaaaaaa | aaaaaaaaa   |             |             |             |             | 2297 |

<210> 734  
 <211> 482  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (455)..(455)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (457)..(457)

<223> n equals a,t,g, or c

<400> 734

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| ttacccagca  | acccaagtca  | tatcctgatg | atatccatac  | tcctcagtca | ygcattcccgt | 60  |
| ggtgcrgggg  | ctgaccccaa  | gaggagctgc | tgcccccaga  | gggtggggag | ccgaggcagg  | 120 |
| gcctkgggtca | gacttaccag  | gctatgctcc | cagcccagcc  | ctcactaggg | acccccgart  | 180 |
| gcatctctct  | cctctccarg  | cctctgtttc | tccatctgtg  | caaccacagt | gttgacatg   | 240 |
| gtartcccaa  | gtgtctgtct  | gtaactttgc | cctctctgtg  | cccccaggtc | agggctgcga  | 300 |
| taagacccgg  | tcacgggtgac | cctgcaggag | tggaaatgacc | ctcttgaccr | tgaccttgag  | 360 |
| gccagctca   | tctaccggca  | cctgctggc  | gtggaggcca  | tgctgtggga | raggcaccgg  | 420 |
| gagctgagcg  | agggcgcaga  | ggcaggcacg | tgctnangag  | ccctggcaaa | gtccccgagg  | 480 |
| at          |             |            |             |            |             | 482 |

<210> 735

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (35)..(35)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1077)..(1077)

<223> n equals a,t,g, or c

<400> 735

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| tgcacctcnc | actattnggg | ttacaaaagc | tgganctcca | ccgcgggtggc | ggccgctcta | 60  |
| gaactagtgg | atcccccg   | ctgcaggaat | tcggcacgag | tcgcccgtt   | gactagcgcc | 120 |
| ctggaacagc | catttgggtc | gtggagtgcg | agcacggccg | gccaatcgcc  | agtcagagg  | 180 |
| gccaggagg  | gcgcggccat | tcgcgcgccg | gcccctgtct | cgtggctgg   | tttctccgcg | 240 |
| ggcgctcgg  | gcggaacctg | gagataatgg | gcagcacctg | ggggagccct  | ggctgggtgc | 300 |
| ggctcgctct | ttgcctgacg | ggcttagtgc | tctcgctcta | cgcgctgcac  | gtgaaggcgg | 360 |
| cgcgcgcccc | ggacgggat  | taccgcgcgc | tctgcgacgt | gggcaccgcc  | atcagctgtt | 420 |
| cgcgcgctct | ctcctccagg | tggggcagg  | gtttcgggct | ggtggagcat  | gtgctgggac | 480 |
| aggacagcat | cctcaatcaa | tccaacagca | tattcggttg | catcttctac  | acactacagc | 540 |
| tattgttagg | ttgcctgcgg | acacgctggg | cctctgtcct | gatgcgctg   | agctccctgg | 600 |
| tgtctctcgc | tggttctgtc | tacctggcct | ggatcctgtt | cttcgtgctc  | tatgatttct | 660 |
| gcattgtttg | tatcaccacc | tatgctatca | acgtgagcct | gatgtggctc  | agtttccgga | 720 |
| aggtccaaga | accccgaggc | aaggctaaga | ggcactgagc | cctcaaccca  | agccaggctg | 780 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| acctcatctg | ctttgctttg | gcatgtgagc | cttgcctaag  | ggggcatatc | tgggtcccta | 840  |
| gaaggcccta | gatgtggggc | ttctagatta | ccccctcctc  | ctgccatacc | crcacatgac | 900  |
| aatggacca  | atgtgccaca | cgctcgctct | tttttacacc  | cagtgcctct | gactctgtcc | 960  |
| ccatgggctg | gtctccaaag | ctctttccat | tgcccaggagg | gggaagggtc | tgagcaataa | 1020 |
| agtttcttag | atcaatcaaa | aaaaaaaaaa | agggsggccg  | tctaaagwtc | ccccganggg | 1080 |
| g          |            |            |             |            |            | 1081 |

<210> 736  
 <211> 720  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n equals a,t,g, or c

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 736   |             |             |             |             |             |     |
| ccacgcgtcc  | gctccgcggn  | cgcctcgggc  | ggaacctgga  | gataatgggc  | agcacctggg  | 60  |
| ggagcccttg  | ctgggtgcgg  | ctcgctcttt  | gcctgacggg  | cttagtgctc  | tcgctctacg  | 120 |
| cgctgcacgt  | gaaggcggcg  | cgcgcccggg  | accgggattac | cgcgcgctc   | tgcgacgtgg  | 180 |
| gcaccgccat  | cagctgttcg  | cgcgtcttct  | cctccagggt  | gcctgsggac  | acgctggggc  | 240 |
| tctgtmctga  | tgctgctgag  | ctccctgggtg | tctctcgctg  | gttctgtcta  | cctggsctgg  | 300 |
| atcctgttct  | tcgtgctcta  | tgawtttctg  | cattgtttgt  | aatcaccacc  | tatgctatca  | 360 |
| acgtgacctg  | atgtggctca  | gtttccggaa  | ggtccaagaa  | ccccagggca  | aggctaagag  | 420 |
| gcactgagcc  | ctcaacccaa  | gccaggctga  | cctcatctgc  | tttgctttgg  | catgtgagcc  | 480 |
| ttgcctaagg  | gggcataatct | gggtccctag  | aaggccctag  | atgtggggct  | tctagattac  | 540 |
| ccccctctcc  | tgccataccc  | gcacatgaca  | atgaccaaa   | tgtgccacac  | gctcgctctt  | 600 |
| ttttacaccc  | agtgcctctg  | actctgtccc  | catgggctgg  | tctccaaagc  | tctttccatt  | 660 |
| gcccaggggag | ggaaggttct  | gagcaataaa  | gtttcttaga  | tcaaaaaaaaa | aaaaaaaaaaa | 720 |

<210> 737  
 <211> 1932  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (293)..(293)  
 <223> n equals a,t,g, or c

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 737  |            |            |            |            |            |     |
| ggcacgaggc | cgccctgggt | gtcagcggct | cggctcccgc | gcacgtccg  | gccgtcgcgc | 60  |
| asctcggcac | ctgcaggctc | gtgcgtcccg | cggctggcgc | ccctgactcc | gtcccggcca | 120 |
| gggagggcca | tgatttccct | cccggggccc | ctggtgacca | acttgctgcg | gtttttgttc | 180 |
| ctggggctga | gtgccctcgc | gccccctcgc | cgggcccagc | tgcaactgca | cttgcccgcc | 240 |
| aaccggttgc | aggcgggtga | gggaggggaa | gtggtgcttc | cagcgtggta | cancttgac  | 300 |
| ggggagggtg | cttcatccca | gccatgggag | gtgccctttg | tgatgtggtt | cttcaaacag | 360 |
| aaagaaaagg | aggatcaggt | gttgtcctac | atcaatgggg | tcacaacaag | caaacctgga | 420 |
| gtatccttgg | tctactccat | gccctcccgc | aacctgtccc | tgcggtgga  | gggtctccag | 480 |
| gagaaagact | ctggccccta | cagctgtctc | gtgaatgtgc | aagacaaaca | aggcaaactc | 540 |
| aggggccaca | gcatcaaaac | cttagaactc | aatgtactgg | ttcctccagc | tcctccatcc | 600 |
| tgccgtctcc | agggtgtgcc | ccatgtgggg | gcaaactgta | ccctgagctg | ccagtctcca | 660 |
| aggagtaagc | ccgctgtcca | ataccagtgg | gatcggcagc | ttccatcctt | ccagactttc | 720 |
| tttgcaccag | cattagatgt | cattcggtgg | tctttaagcc | tcaccaacct | ttcgtttccc | 780 |
| atggctggag | tctatgtctg | caaggcccac | aatgaggtgg | gcactgccaa | tgtaatgtga | 840 |
| cgctggaagt | gagcacaggg | cctggagctg | cagtggttgc | tggagctgtt | gtgggtaccc | 900 |

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| tggttggact | ggggttgctg  | gctgggctgg | tctcttgta   | ccaccgccgg  | ggcaaggccc  | 960  |
| tggaggagcc | agccaatgat  | atcaaggagg | atgccattgc  | tccccggacc  | ctgccctggc  | 1020 |
| ccaagagctc | agacacaatc  | tccaagaatg | ggaccctttc  | ctctgtcacc  | tccgcacgag  | 1080 |
| ccctccggcc | accccatggc  | cctcccaggc | ctggtgcatt  | gacccccacg  | cccagtctct  | 1140 |
| ccagccaggc | cctgcctca   | ccaagactgc | ccacgacaga  | tggggcccacc | ctcaaccaa   | 1200 |
| tatcccccat | ccctgggtgg  | gtttcttcct | ctggcttgag  | ccgcatgggt  | gctgtgcctg  | 1260 |
| tgatggtgcc | tgcccagagt  | caagctggct | ctctgggtatg | atgacccccc  | caactcattgg | 1320 |
| ctaaaggatt | tgggggtctct | ccttcctata | rgggtcacct  | ctagcacaga  | ggcctgagtc  | 1380 |
| atgggaaaga | gtcacactcc  | tgacccttag | tactctgccc  | ccacctctct  | ttactgtggg  | 1440 |
| aaaaccatct | cagtaagacc  | taagtgtcca | ggagacagaa  | ggagaagagg  | aagtggatct  | 1500 |
| ggaattggga | ggagcctcca  | cccacccctg | actcctcctt  | atgaagccag  | ctgctgaaat  | 1560 |
| tagctactca | ccaagagtga  | ggggcagaga | cttcaggcca  | ctgagctcc   | caggccccct  | 1620 |
| tgatctgtac | cccaccccta  | tctaaccaca | cccttggtcc  | ccactccagc  | tccctgtatt  | 1680 |
| gatataacct | gtcaggctgg  | cttggttagg | ttttactggg  | gcagaggata  | gggaatctct  | 1740 |
| tattaaaact | aacatgaaat  | atgtgttggt | ttcatttgca  | aatttaaata  | aagatacata  | 1800 |
| atgtttgtat | garaaaaaaa  | aaaaaaaaaa | aaaaagggcg  | gccgctctag  | aggatccctc  | 1860 |
| gaggggcccc | agcttacgcg  | tgcatgcgac | gtcatagctc  | tctccctata  | gtgagtcgta  | 1920 |
| ttataagcta | gg          |            |             |             |             | 1932 |

<210> 738  
 <211> 1595  
 <212> DNA  
 <213> Homo sapiens

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 738  |             |             |             |             |            |      |
| gcctaaagag | agctccccca  | ggaccagccc  | tggccaaggg  | attgctgcag  | ccctcatcca | 60   |
| ccttccaagc | actggaacaa  | aacattggag  | accaagtggg  | gcgtcactca  | acagccgtag | 120  |
| taatcaggga | aatgacaagt  | tacatactga  | tatcctttgt  | tttgctgatt  | ggagttgggt | 180  |
| gcattgaaaa | agatcagtcg  | tgcccagtg   | ttgggggaag  | gaagcgtctt  | cacctgttgt | 240  |
| ttgtgggagg | acagttgagg  | caggtssagc  | tgggagctcc  | ccgacctcca  | ggagggcaag | 300  |
| atccaagcca | tcagcgactc  | ggacgrggtg  | aactacccct  | ggtacggcaa  | caccacagag | 360  |
| acctgcacca | tcgtggggcc  | caccaagagg  | gactccaa    | tcatcatcag  | catgaatgac | 420  |
| aacttttacc | ccagcgtcac  | atggggccgtg | cccgtcagcg  | agagcaacgt  | ggccaagctc | 480  |
| accaacatct | accgggacca  | gagcttcacc  | acctggctgg  | tggccaccaa  | cacctccacc | 540  |
| aacgacatga | tcatactgca  | gacgctgcac  | tggcgcgatgc | agctcagcat  | cgaggtgaac | 600  |
| cccaaccggc | ccctggggcca | gcgcgcccgg  | ctgcggggagc | ccatcgccca  | ggaccagccc | 660  |
| aaaatcctga | gcaagaatga  | gccccatccc  | cccagcgccc  | tggtaagcc   | caatgccaac | 720  |
| gatgccagag | tctcatgtg   | gcggcccaag  | taygggcagc  | cgctggtggt  | gatccccgcc | 780  |
| aagcaccggt | gacagccagg  | accacccgct  | aggttagact  | cacaaataat  | aataccgctg | 840  |
| aaaacaaaaa | tcagactcac  | tcttcagtca  | ttcagcaaga  | tacaaccatt  | ctaccctctc | 900  |
| cagcggggcg | atctcactgt  | gctgatgccc  | ccgggaaggc  | ctccccggct  | ctcgccacct | 960  |
| gcttcccttc | agggagaggg  | gagatctaag  | caggacagac  | agacccccacg | tgcgccctca | 1020 |
| gggtgacctc | tgggtctcctt | gcctctcctt  | tttctcagtt  | tcagtcgctc  | acttgtaaca | 1080 |
| gattccctga | aacactgctt  | tttccgtttt  | ttaaaaaaac  | tctctttttg  | ggggctcagg | 1140 |
| ggcaggagga | gggggagctg  | attaggaggg  | aagctccagc  | ccccgatcaa  | agagacagat | 1200 |
| ccacactgct | gccgatttgt  | ggcgtgtg    | ggccttcccc  | ccaggtccct  | ccgccctctg | 1260 |
| tcatgcggcc | ttatgtagac  | ttgctttgcc  | aaactttttg  | cttaagctga  | attgaaagga | 1320 |
| agaaaaccaa | tcggagaaaag | aaagcaggat  | ctctttttcta | ccggactttt  | cctcttctgc | 1380 |
| cagaggtgga | gggaggggtg  | gggtcgcccc  | cgagartctc  | ttgarccctt  | cttccccggt | 1440 |
| gtcttgggag | aaggggtgagg | atgggcattt  | agacccgaaa  | ccagctgctc  | actctttctt | 1500 |
| tttggcagaa | ataaaaccac  | argtagaaaa  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaaaaaaa | 1560 |
| aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | aaaaa       |             |            | 1595 |

<210> 739  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens



<220>  
 <221> misc\_feature  
 <222> (854)..(854)  
 <223> n equals a,t,g, or c

<400> 739  
 tgaagggcmc ggccaatkta cgctggggta aaagttgtca wtcattgctga tgatgaattg 60  
 aartccctct tggtagggcc cacgatgggt caggctcctcc tgtgggtgttg cccgtacag 120  
 ggtagttcac cccgtccgag tcgctgatgg cttggatctt gccctcctgg aggtcgggga 180  
 gctcccagct ggacatgcc tgctcgccgt actggttgta gaactccatg tggctgcacg 240  
 cctggatcca gccaaactacc caagtctcct tcttggggat gggcggcag accacctggg 300  
 ccgaggcccc gaagtggggt gtccggtagc ggagcaccac gctggaggac tcatcgatgc 360  
 tagtggggac ggggtcgatg gaggctttca catcaatcac cgtgatccct tcccgaaga 420  
 ctctggcttt gcctccgatg ctctgaatac agcccatggc atacaggagc gctctgatct 480  
 ccagggaagg ccagcagtc cagaaaaaac caggcattga aaggacagaggctgcaggac 540  
 ccagtacaga cggcgctgct ctccaatctc aactctcaag accgatattcc ataggataga 600  
 aaactcactg agtagactgg ggttgcatat atcactaccg cggcctgttt ataaataagg 660  
 attctgtctg atttcatgag ccttgggctc tctctcttc tctcgcagc ggacaaaaat 720  
 caccgatatt ctttgggtta aaaaaagttt gtagtttaaat gaataattat gcggttctga 780  
 catccagccc ttctgtgctt cacacgcggg gacggcagct cgcagactct ccttgaagtc 840  
 ttcggaggaa gcangcgagc gccggcagac tcataataaa ggaaggctct gtccccgcgc 900  
 ggccgcgcca ccctcgcggc agaagcctga ctctctgcc tccggcttc cgcacgcgct 960  
 cccggcacga 970

<210> 740  
 <211> 711  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (345)..(345)  
 <223> n equals a,t,g, or c

<400> 740  
 ggcacgagcg aagaccctgt tcggaccctg ccccgattcc agactcaggt agatcgctcg 60  
 cataccctct accgtggaca ccaggcagcc ctggggctga tggagagaga tcaggtatcc 120  
 cccagggagt aggggctacc ttgaggggat gatagacct cccactccc agtgkkactc 180  
 tggaaatatg aaggaactag ggagtgaag agatttcaga ggggggaga ggagttcctc 240  
 ccttcaaagc cagcaactgc ctttgggaa tgtcgggggg tctctccttt ctctgcttg 300  
 tttragggtg tacacagtcc ccccttcamc ttgsgggaag ctgtnccgga caractcatc 360  
 tcagctttcc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatctgg 420  
 agcaggaagg cctcgaggcc acacaggggc tgctggccgg cgagtgggccc ccacccctct 480  
 ggragctggg cagcctcttc caggccttcg tgaagaggga gagccaggct tatgcgtaag 540  
 cttcatagct tctgctggcc tggggtggac ccaggacccc tggggcctgg gtgccctgag 600  
 tggtagtaaa gtggagcaat cccttcacgc tcttggcca tgttctgagc ggccagcttg 660  
 gcctttgcct taataaatgt gctttatatt caaaaaaaaaa aaaaaaaac t 711

<210> 741  
 <211> 973  
 <212> DNA  
 <213> Homo sapiens

<400> 741  
 ggcacgagcc cagcgggaag caagccacca ggccccccag cgtccacgcg gagcatgaac 60  
 attgaggatg gcgcgtgccc gcggctcccc gtgccccccg ctgccgccc gtaggatgtc 120

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| ctggccccac | ggggcattgc | tcttcctctg  | gtctttctcc  | ccacccttg  | gggcccgtgg  | 180 |
| aggtggagtg | gccgtgacgt | ctgccgcgg   | agggggctcc  | ccgccggcca | cctcctgccc  | 240 |
| cgtggcctgc | tcctgcagca | accaggccag  | ccgggtatc   | tgcacacgga | gagacctggc  | 300 |
| cgaggtccca | gccagcatcc | cggtaaacac  | gcggtacctg  | aacctgcaag | agaacggcat  | 360 |
| ccaggtgata | cggacggaca | cggtcaagca  | cctgcggcac  | ctggagattc | tgcagctgag  | 420 |
| caagaacctg | gtgcgcaaga | tcgaggtggg  | cgcttcaaac  | gggctgcccc | gcctcaaacac | 480 |
| gctggagctt | tttgacaacc | ggctgaccac  | ggtgcccacg  | caggccttcg | agtacctgtc  | 540 |
| caagctgcgg | gagctctggc | tgcggaacaa  | ccccatcgag  | agcatcccct | cctacgcctt  | 600 |
| caaccgcgtg | ccctcgctgc | ggcgccctgga | cctggggcgag | ctcaagcggc | tggaatacat  | 660 |
| ctcggaggcg | gccttcgagg | ggctggtcaa  | ctgcgctac   | ctcaacctgg | gcatgtgcaa  | 720 |
| cctcaaggac | atccccaacc | tgacggccct  | ggtgcgcctg  | gaggagctgg | agctgtcggg  | 780 |
| caaccggctg | gacctgatcc | gcccgggctc  | ctccagggt   | ctcaccagcc | tgcgcaagct  | 840 |
| gtggctcatg | cacgcccagg | tagccaccat  | cgagcgcaac  | gccttcgacg | acctcaagtc  | 900 |
| gctggaggag | ctcaacctgt | cccacaacaa  | cctgatgtcg  | ctgccccacg | acctcttcac  | 960 |
| gcccctgcac | cgc        |             |             |            |             | 973 |

<210> 742  
 <211> 984  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| gaattcggca | cgagcccagc  | ggaagccaag | ccaccaggcc  | ccccagcgtc  | cacgcggagc  | 60  |
| atgaacattg | aggatggcgc  | gtgccgcgg  | ctccccgtgc  | cccccgctgc  | cgcccggtag  | 120 |
| gatgtcctgg | ccccacgggg  | cattgtctct | cctctggctc  | ttctccccac  | ccctggggggc | 180 |
| cggtggaggt | ggagtggccg  | tgacgtctgc | cgccggaggg  | ggctccccgc  | cggccacctc  | 240 |
| ctgccccgtg | gcctgctcct  | gcagcaacca | ggccagccgg  | gtgatctgca  | cacggagaga  | 300 |
| mctggccgag | gtcccagcca  | gcatcccggt | caacacgcgg  | tacctgaacc  | tgcaagagaa  | 360 |
| cggcatccag | gtgatccgga  | cggacacgtt | caagcacctg  | cggcacctgg  | agattctgca  | 420 |
| gctgagcaag | aacctggtgc  | gcaagatcga | ggtggggcgc  | ttcaacgggc  | tgcccagcct  | 480 |
| caacacgctg | gagctttttg  | acaaccggct | gaccacgggtg | cccacgcagg  | ccttcgagta  | 540 |
| cctgtccaag | ctgcggggagc | tctggctgcg | gaacaacccc  | atcgagagca  | tcccctccta  | 600 |
| cgcttcaac  | cgctgcccct  | cgctgcggcg | cctggacctg  | ggcgagctca  | agcggctga   | 660 |
| atacatctcg | gaggcggcct  | tcgargggct | ggtcaacctg  | cgctacctca  | acctgggcat  | 720 |
| gtgcaacctc | aaggacatcc  | ccaactgacg | gccctgggtg  | gcctggaggga | gctggagctg  | 780 |
| tcgggcaacc | ggctggacct  | gatccgcccg | ggctccttcc  | agggctctcac | cagcctgcgc  | 840 |
| aagctgtggc | tcatgcacgc  | ccaggtagcc | accatcgagc  | gcaacgcctt  | cgacgacctc  | 900 |
| aagtcgctgg | aggagctcaa  | cctgtcccac | aacaacctga  | tgtcgctgcc  | ccacgacctc  | 960 |
| ttcacgcccc | tgcaccgcct  | cgtg       |             |             |             | 984 |

<210> 743  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gtgtgccgga  | tttggttagc | tgagcccacc | gagaggcgcc | tgcaggatga  | aagctctctg | 60  |
| tctcctcctc  | ctccctgtcc | tggggctggt | ggtgtctagc | aagaccctgt  | gctccatgga | 120 |
| agaagccatc  | aatgagagga | tccaggaggt | cgccggctcc | ctaataattta | gggcaataag | 180 |
| cagcattggc  | ctggagtgcc | agagcgtcac | ctccaggggg | gacctggcta  | cttgcccccg | 240 |
| aggcttcgcc  | gtcaccggct | gcacttgtgg | ctccgcctgt | ggctcgtggg  | atgtgcgcgc | 300 |
| cgagaccaca  | tgtcactgcc | agtgcgcggg | catggactgg | accggagcgc  | gctgctgtcg | 360 |
| tgtgcagccc  | tgaggtcgcg | cgcagtggca | acagcgcggg | cggaggcggc  | ccaggtccg  | 420 |
| gaggggttgcg | ggggagctgg | aaataaacct | ggagatgatg | atgatgatga  | tgatggaaaa | 480 |
| aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | 540 |
| aaaaaaaaaa  | aaa        |            |            |             |            | 553 |

<210> 744  
 <211> 1614  
 <212> DNA  
 <213> Homo sapiens

```

<400> 744
ggtgattggt agttactatg tggggacaca attacttggg ctgaaataat ccacctgttg      60
tggttggggg cctctggggc attccagggt gagagggtgt cactgccacc tgggccatgt      120
gggccggcac cagcattttg tggttacgaa ttctacagtc acaaatatctttgggcaaat      180
ccccttctat acctcaaggc agcttttggg ttgcaacccc actggccaga gggaaggggc      240
agtcacttgg ctctctcact gccctgcgcc ccagatgggt ctagggtgc tggtttccct      300
tggccctgcc aacaccactg tttttacttc tgctcattgg ctgagtgcag tggttcctgg      360
aagccagtgg cacgtttccc cgcgtagctc gcttatccca cagcacacac ccaagggttc      420
tggtgctaac acgctgaatt aattctttgc tcatcttaca gagtgtgttt tgactgcccc      480
catttctgag gccttgtaag gccagagctt tggtgcttca tcggcagggt gggacttaga      540
tggccgtgaa tggttcctct ctgctgctgc agtaagtaag tgccgcacc atagtgtgtt      600
tggaggctga agttgaagcg aggctgtgag gggagatgga cgtgtgagga gggatgatgg      660
ggcttgagca aagtggggga ggggcaaagc agttggccca acacattccc cacccttttg      720
agaggtctga ggcctgcaga cctggctcgg agcccacctg gtagtcctca gactgtgtgt      780
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtaaaagaga gaagttgtgg      840
agaaatgggg ggctgattct gctcagattc atcaggatga gtagaaggca cccagctctc      900
accctggcct gacatgtgtg tccctgagca gggtacagtc ctctctgagc ctctgcttcc      960
catctggacc ctgctgggca gggcttctga gctccttagc actagcagga ggggctccag      1020
gggccctccc tccatggcag ccaggacagg actctaaaat gaggacagca gagctcgtgg      1080
ggggctccca cggaccgcgc gtgggcccag gggaggcaga gcctgagcca acagcagtgg      1140
tgctgtggac cgtggatcct gaggggtggc tggggcaagt accggctgag ggtccagggt      1200
ggctttgtgt acctttgggt cctggggccc tggtgacttg gactccaggt tagagtcaag      1260
tgacaggaga aaggctgggtg gggccctgtg cttccgactt catttcgagt gatggcagtt      1320
cccaggaagg aatccacagc tgacggtggc tgacagatca gagaatggaa ggcgaggcag      1380
gcgggcgtct gcgtgacctc aggtgcttgg ggcagcagc acccagagaa ccatttccac      1440
taggccaggg tgccggaagt gtccacaggt cttagattcc ctgttcagat gaaaagattt      1500
gtgcctttaa tgataaaaagt gatctgcata gagtcaaaaa ttcaagccat gggataaaaa      1560
tgcaagtaaa atccctgccc tcacctatcc caccctacta cacagagatg tcct      1614

```

<210> 745  
 <211> 1087  
 <212> DNA  
 <213> Homo sapiens

```

<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (55)..(55)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (63)..(64)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (174)..(174)

```

<223> n equals a,t,g, or c

<400> 745

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| caagttaaag  | taangtggcc | ccggcaacca | ataagtgttg  | tttttgggaag | ggctngaaag  | 60   |
| ttnnaaagcg  | agggcttgta | aaggggaaga | tgggaccgtt  | gtgaaggaag  | gatgattgg   | 120  |
| gctttgaagc  | aaaagtgggg | gaagggggca | aaggcagttg  | gccaacaca   | ttcnccaccc  | 180  |
| ctttgagagg  | tctgaggcct | gcagacctgg | ctcggagccc  | acctggtagt  | cctcagactg  | 240  |
| tgtgtgtgtg  | tgtgtgtgtg | tgtgtgtgtg | tgtgtgtgtg  | tgtgtgtaaa  | agagagaagt  | 300  |
| tgtggagaaa  | tggggggctg | attctgctca | gattcatcag  | gatgagtaga  | aggcacccag  | 360  |
| ctctcaccct  | ggcctgacat | gtgtgtccct | gagcaggtta  | cagkcctctc  | tgagcctctg  | 420  |
| cttcccatct  | ggacctgct  | gggcagggt  | tctragctcc  | ttagcactag  | caggaggggc  | 480  |
| tccagggg    | ctccctccat | ggcagccagg | acaggactct  | aaaatgagga  | cagagagct   | 540  |
| cgtggggggc  | tcccacggac | ccgccktggg | cccaggggag  | gcagagcctg  | agccaacagc  | 600  |
| agtgggtgctg | tggaccgtgg | atcctgaggg | tggcctgggg  | caagtaccgg  | ctgaggggtcc | 660  |
| aggtgggctt  | tgtgtacctt | tgggtcctgg | ggccttggtg  | acttggactc  | cagggttagag | 720  |
| tcaagtgaca  | ggagaaagc  | tgggtggggc | ctgtgcttcc  | gacttcattt  | cgagtgatgg  | 780  |
| cagttcccag  | gaaggaatcc | acagctgacg | gtggctgaca  | gatcagagaa  | tggaaggcga  | 840  |
| ggcaggcggg  | cgtctgctg  | acctcaggtg | cttggggccc  | agcagaccca  | gagaaccatt  | 900  |
| tccactaggg  | cagggtgccg | gaagtgtcca | caggctcttag | attccctgt   | cagatgaaaa  | 960  |
| gatttgtg    | tttaatgata | aaagtgatct | gcatagagtc  | aaaaattcaa  | gccatgggta  | 1020 |
| taaaatgtca  | agtaaaatcc | ctgcctcac  | ctatcccacc  | ctactacaca  | gagatgtcct  | 1080 |
| ctcgagg     |            |            |             |             |             | 1087 |

<210> 746

<211> 1201

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1182)..(1182)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1184)..(1184)

<223> n equals a,t,g, or c

<400> 746

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| gaattccgga  | acaaaawgcyg | gagctccacc | gcggtggcgg  | ccgctctaga  | actagtggat | 60  |
| cccctnkgct  | gcaggaattc  | ggcacgagct | gctgtctgtg  | cttcgggata  | ctgccctcca | 120 |
| gaagtccctc  | aaggcttggt  | acttgctgcg | tgtccaggtc  | ctgcagctgg  | tggcagctta | 180 |
| ccttagcctc  | ccgtcaaaca  | acctctcaca | ctccctgtgg  | gagcagctct  | gtgccaaggg | 240 |
| ctggcagaca  | cctgagatag  | ctctcataga | ctcccataag  | ctcctccgaa  | gcatactcct | 300 |
| cctgtctgatg | ggcagtgaca  | ttctctcaac | tcagaaaagca | gctgtggaga  | catcgttttt | 360 |
| ggactatggt  | gaaaatctgg  | tacaaaaatg | gaggttctt   | tcagaggtgc  | tgagctgctc | 420 |
| agagaagctg  | gtctgccacc  | tgggccgcct | gggtagtgtg  | agtgaagcca  | aggccttttg | 480 |
| cttgagggcc  | ctaaaactta  | caacaaagct | gcagatacca  | cgccagtktg  | ccctgttctt | 540 |
| ggtgctgaag  | ggcagctgg   | agctggcccc | caatgacatt  | gatctctgtc  | agtcggacct | 600 |
| gcagcaggtt  | ctgttcttgc  | ttgagtcttg | cacagagttt  | ggtgggggtga | ctcagcacct | 660 |
| ggactctgtg  | aagaaggtcc  | acctgcagaa | ggggaagcag  | caggcccagg  | tcccctgtcc | 720 |
| tccacagctc  | ccagaggagg  | agctcttctt | aagaggccct  | gctctagagc  | tggtgccact | 780 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| gtggccaagg | agcctggccc | catagacct  | tctacaaact | cctccccagt | cttgaaaacc | 840  |
| aagccccagc | ccatacccaa | cttcctgtcc | cattcaccca | cctgtgactg | ctcgctctgc | 900  |
| gccagccctg | tcttcacagc | agtctgtctg | cgctgggtat | tggtcacggc | aggggtgagg | 960  |
| ctggccatgg | gccaccaagc | ccagggtctg | gatctgctgc | aggtcgtgct | gaagggagt  | 1020 |
| cctgaagccg | ctgagcgcc  | cacccaagct | ctccaagctt | ccctgaatca | taaaacaccc | 1080 |
| ccctccttgg | ttccaagcct | cttggatgag | atttggctaa | gcatacacac | tgttgactg  | 1140 |
| gagggcctga | accagccatc | aaacgagagc | ctgcagaagg | tncncagtaa | ggctgaagtt | 1200 |
| t          |            |            |            |            |            | 1201 |

<210> 747  
 <211> 628  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (567)..(567)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (596)..(596)  
 <223> n equals a,t,g, or c

|             |  |
|-------------|--|
| <400> 747   |  |
| ttgggaagct  | ggtmcsccctg caggtaccgg tccggaattc ccgggtcgac ccacgcgtyc 60 |
| gttccagatt  | caattgaaag tgcattgcag ggtgatgaaa gatgtgtgct tgatactatg 120 |
| cgtttggttg  | accttctctt ggtgctatta tttgaaggac gaaaagcttt gccaaagtct 180 |
| agtgtgtgat  | ctacaggcag aatcccagga ctccggagat tagatagttc tggggagcgc 240 |
| tcacatcggc  | agcttataga ttgtattcga agtaaagata ccgatgcact tatagatgca 300 |
| attgacacag  | gaggtcagaa aatatttttt taaatataaa aagaaagttg tgagataacc 360 |
| atataggcag  | tttctagttt tccgacagta ctcttagaaa tccagaaac aaagtggcac 420  |
| cccttcgata  | ttctccccta tccctgtgca taattatgta attatcagct tggttcttgg 480 |
| tgaaacctga  | ataaatgctt tttgatgcaa aaaaaaaaaa aaaagaaaaa taaaaaaaaa 540 |
| agataaaaaa  | aaaccttaaa aaaaaanaaa aaaaaaaaaa aaaaaaaaaa gaaaaanaaa 600 |
| aaaaaaaaaca | aaaaaaaaaa aaaaaaaaaa 628                                  |

<210> 748  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (367)..(367)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (380)..(380)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (408)..(408)  
 <223> n equals a,t,g, or c

```

<400> 748
atcgtgctca agtacatcat ggctggttgc cccttgtttc tgggtaatct ctgggatgtg      60
actgaccgcg acattgaccg ctacacggaa gctctgctgc aaggctggct tggaagcagg      120
cccagggccc cccttctcta ctatgtaaac caggcmcgcc aagctccccg actcaagtat      180
cttattgggg ctgcacctat acctatggct tgcctgtctc tctgcggtaa ccccatggag      240
ctgtcttatt gatgctagaa gcctcataac tgttctacct ccaagggttag atttaatcct      300
taggataact cttttaaaagt gattttcccc aggttttat atgaaacatt tccttttgat      360
ttaaccncag ataataaagn tacatccatt taaaaaaaaa aaaaaaancc cgaggggggg      420
cccgg                                           425

```

```

<210> 749
<211> 1016
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```

```

<400> 749
ncggacgcgt gggaggcaca ggctgagaa gtctgcggct gagctgggag caaatcccc      60
accccctacc tgggggacag ggcaagttag acctgggtgag ggtggctcag caggaaggaa      120
ggagaggtgt ctgtgcgtcc tgcaccaca ttttctctg tccccctcct gccctgtctg      180
gaggctgcta gactcctatc ttctgaattc tatagtgcct ggggtctcagc gcagtgccga      240
tggtggcccc tccttgtggt tcctctctac ttggggaaat cagggtgcagc ggccatggct      300
acagcaagac ccccctggat gtgggtgctc tgtgctctga tcacagcctt gcttctgggg      360
gtcacagagc atgttctcgc caacaatgat gtttcctgtg accaccctc taacaccgtg      420
ccctctggga gcaaccagga cctgggagct ggggccgggg aagaagcccc gtcggatgac      480
agcagcagcc gcatcatcaa tggatccgac tgcgatatgc acaccagcc gtggcaggcc      540
gcgctgttgc taaggcccaa ccagctdac tgcggggcgg tgttggtgca tccacagtgg      600
ctgctcacgg ccgcccacct gcaggaagaa agttttcaga gtcgtctcgg ccactactcc      660
ctgtcacagt ttattgaatc tgggccggag atgtccaggg ggtcaattca atccgcaca      720
gggtagtcca agctgacatc taaggacgtg agttcgttca acggagaacg aagaatgac      780
acaacacagg tgagcataag ggtaccgga tggtcgcatg gagggaccac gtgttgggtt      840
gtagggcaca caaacgacca aggcattctg gagcacagga tatcgcgaga atcaaagccg      900
aagggtccaaa cactagtaca gttgaggaac gggatgtgaa atagtacgag gcaaataaca      960
cccggggttc cacatgaaat agctttttct cgctcttcc ctcccccttc ctctgg      1016

```

```

<210> 750
<211> 1490
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```

```

<400> 750
ngccaggaag gcacaggcct gagaagtctg cggctgagct gggagcaaatt cccccaacc      60
ctgtctggag gctgctagac tcctatcttc tgaattctat agtgctggg tctcagcgca      120
gtgccgatgg tggcccgctc ttgtggttcc tctctacctg gggaaataag gtgcagcggc      180
catggctaca gcaagacccc cctggatgtg ggtgctctgt gctctgatca cagccttgc      240
tctgggggtc acagagcatg ttctgcgcaa caatgatgtt tcctgtgacc acccctctaa      300
caccgtgccc tctgggagca accaggacct gggagctggg gccggggaag acgcccggtc      360
ggatgacagc agcagccgca tcatcaatgg atccgactgc gatatgcaca cccagccgtg      420

```

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| gcaggccg    | ctgttgctaa | ggcccaacca  | gctctactgc | ggggcggtgt | tgtgcatcc   | 480  |
| acagtggctg  | ctcacggccg | cccactgcag  | gaagaaagt  | ttcagagtc  | gtctcggcca  | 540  |
| ctactccctg  | tcaccagttt | atgaatctgg  | gcagcagatg | ttccaggggg | tcaaactccat | 600  |
| ccccaccct   | ggctactccc | accctggcca  | ctctaacgac | ctcatgctca | tcaaactgaa  | 660  |
| cagaagaatt  | cgtccacta  | aagatgtcag  | acccatcaac | gtctcctctc | attgtccctc  | 720  |
| tgctgggaca  | aagtgccttg | tgtctggctg  | ggggacaacc | aagagcccc  | aagtgcactt  | 780  |
| ccctaaggtc  | ctccagtgtc | tgaatatcag  | cgtgctaagt | cagaaaaggt | gcgaggatgc  | 840  |
| ttacccgaga  | cagatagatg | acaccatgtt  | ctgcgccggt | gacaaaagag | gtagagactc  | 900  |
| ctgccagggt  | gattctgggg | ggcctgtggt  | ctgcaatggc | tccctgcagg | gactcgtgtc  | 960  |
| ctggggagat  | tacccttgtg | cccggcccaa  | cagaccgggt | gtctacacga | acctctgcaa  | 1020 |
| gttcaccaag  | tgatccagg  | aaaccatcca  | ggccaactcc | tgagtcatcc | caggactcag  | 1080 |
| cacaccggca  | tcccacctg  | ctgcagggac  | agccctgaca | ctcctttcag | accctcattc  | 1140 |
| cttcccagag  | atgttgagaa | tgttcattctc | tccagccctc | gaccccatgt | ctcctggact  | 1200 |
| cagggctctgc | ttccccaca  | ttgggtgac   | cgtgtctctc | tagttgaacc | ctgggaacaa  | 1260 |
| tttccaaaac  | tgtccagggc | gggggttgcg  | tctcaatctc | ctggggcac  | tttcatcctc  | 1320 |
| aagctcaggg  | cccatccctt | ctctgcagct  | ctgacccaaa | tttagtcca  | gaaataaact  | 1380 |
| gagaagtggg  | aacaaacaca | acccccgatc  | atataaacgc | agcacacttc | acccaccggc  | 1440 |
| actaccgcc   | acgccagcca | ccccaccac   | aaacggccgc | tccttaccgc |             | 1490 |

<210> 751  
 <211> 1441  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 751  |            |            |            |             |            |      |
| aggaaggaag | gagaggtgtc | tgtgcgtcct | gcaccacat  | ctttctctgt  | cccctccttg | 60   |
| ccctgtctgg | aggctgctag | actcctatct | tctgaattct | atagtgcctg  | ggctcagcg  | 120  |
| cagtccgat  | ggtggcccg  | ccttggtggt | cctctctact | tgaggaaatc  | aggtgcagcg | 180  |
| gccatggcta | cagcaagacc | cccctggatg | tggtgtctct | gtgctctgat  | cacagccttg | 240  |
| cttctggggg | tcacagagca | tgttctcgcc | aacaatgatg | tttcctgtga  | ccaccctct  | 300  |
| aacaccgtgc | cctctgggag | caaccggacc | tgaggagctg | ggccggggaa  | gacgcccgg  | 360  |
| cggatgacag | cagcagccgc | atcatcaatg | gatccgactg | cgatatgcac  | acccagccgt | 420  |
| ggcaggccgc | gctgttgcta | aggcccaacc | agctctactg | cggggcggtg  | ttggtgcac  | 480  |
| cacagtggct | gtcacggcc  | gcccactgca | ggaagaaagt | tttcagagtc  | cgtctcgcc  | 540  |
| actactccct | gtcaccagtt | tatgaatctg | ggcagagat  | gttccagggg  | gtcaaatcca | 600  |
| tccccaccc  | tggtactcc  | caccctggcc | actctaacga | cctcatgctc  | atcaaactga | 660  |
| acagaagaat | tcgtcccact | aaagatgtca | gacccatcaa | cgtctcctct  | cattgtccct | 720  |
| ctgctgggac | aaagtgcctg | gtgtctggct | gggggacaac | caagagcccc  | caagtgcact | 780  |
| tccctaaggt | cctccagtcg | ttgaatatca | gcgtgctaag | tcagaaaagg  | tgcgaggatg | 840  |
| cttacccgag | acagatagat | gacaccatgt | tctgcgccgg | tgacaaaagca | gtagagact  | 900  |
| cctgccaggg | tgattctggg | gggctgtgg  | tctgcaatgg | ctccctgcag  | ggactcgtgt | 960  |
| cctggggaga | ttacccttgt | gcccggccca | acagaccggg | tgtctacacg  | aacctctgca | 1020 |
| agttcaccaa | gtggatccag | gaaaccatcc | aggccaactc | ctgagtcac   | ccaggactca | 1080 |
| gcacaccggc | atccccacct | gctgcaggga | cagccctgac | actcctttca  | gaccctcatt | 1140 |
| ccttcccaga | gatgttgaga | atgttcatct | ctccagcccc | tgaccccatg  | tctcctggac | 1200 |
| tcagggtctg | cttccccac  | attgggtgta | ccgtgtctct | ctagttgaac  | cctgggaaca | 1260 |
| atttccaaaa | ctgtccaggg | cgggggttgc | gtctcaatct | ccctggggca  | ctttcatcct | 1320 |
| caagctcagg | gcccacccct | tctctgcagc | tctgacccaa | atttagtccc  | agaaataaac | 1380 |
| tgagaagtgg | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | 1440 |
| a          |            |            |            |             |            | 1441 |

<210> 752  
 <211> 1516  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (34)..(34)  
 <223> n equals a,t,g, or c

```
<400> 752
ttcacgtgca cactgatcac aacgtcacgc ctgncagggc accggtccgg gaattcccgg      60
gtcgacccac gcgtccgcag gagaggtgtc tgtgcgtcct gcacccacat ctttctctgt      120
cccctccttg cctgtcttg aggctgctag actcctatct tctgaattct atagtgcctg      180
ggtctcagcg cagtgcgat ggtggcccgt ccttgtggtt cctctctact tggggaaatc      240
agggtgcagcg gccatggcta cagcaagacc cccctggatg tgggtgctct gtgctctgat      300
cacagccttg cttctggggg tcacagagca tgttctcgcc aacaatgatg tttcctgtga      360
ccacccctct aacaccgtgc cctctgggag caaccaggac ctgggagctg gggcgggga      420
agacgcccgg tcggatgaca gcagcagccg catcatcaat ggatccgact gcgatatgca      480
caccagcccg tggcaggccg cgctgttgct aaggcccaac cagctctact gcggggcggt      540
gttggtgcat ccacagtggc tgctcacggc cgccactgc aggaagaaag ttttcagagt      600
ccgtctcggc cactactccc tgtcaccagt ttatgaatct gggcagcaga tgttcaggg      660
ggtcaaatcc atccccacc ctggctactc ccaccctggc cactctaacg acctcatgct      720
catcaaactg aacagaagaa ttcgtcccac taaagatgtc agacccatca acgtctcctc      780
tcaattgtccc tctgctggga caaagtgtct ggtgtctggc tgggggaaa ccaagagccc      840
ccagtgcac tccctaagg tctccagtgc cttgaatctc agcgtgctaa gtcagaaaag      900
gtgcgaggat gcttaccgca gacagataga tgacaccatg ttctgcgccg gtgacaaagc      960
aggtagagac tcttgccagg gtgattcttg ggggcctgtg gtctgcaatg gctccctgca     1020
gggactcgtg tcttggggag attacccttg tgcccggccc aacagaccgg gtgtctacac     1080
gaacctctgc aagtccacca agtggatcca ggaaaccatc caggccaact cctgagtcac     1140
cccaggactc agcacaccgg catccccacc tgctgcaggg acagccctga cactcctttc     1200
agaccctcat tccttcccag agatgttgag aatgttcac tccagccc ctgaccccat     1260
gtctcctgga ctcagggtct gcttccccca cattgggctg accgtgtctc tctagttgaa     1320
ccctgggaac aatttccaaa actgtccagg gcgggggttg cgtctcaatc tccctggggc     1380
actttcatcc tcaagctcag ggcccatccc ttctctgcag ctctgacca aatttagtcc     1440
cagaaataaa ctgagaagtg gaatcttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1500
aaaaaagggc ggccgc                                     1516
```

<210> 753  
 <211> 1381  
 <212> DNA  
 <213> Homo sapiens

```
<400> 753
gataactcag gcccggtgcc cagagcccag gaggaggcag tggccaggaa ggcacaggcc      60
tgagaagtct gcggtgagc tgggagcaaa tccccaccc cctacctggg ggacagggtg      120
cagcgcccat ggctacagca agacccccct ggatgtgggt gctctgtgct ctgatcacag      180
ccttgcttct gggggtcaca gagcatgttc tcgccaacaa tgatgtttcc tgtgaccacc      240
cctctaacac cgtgccctct gggagcaacc aggacctggg agctggggcc ggggaagacg      300
cccggtcgga tgacagcagc agccgcacat tcaatggatc cgaactgcga atgcacacc      360
agccgtggca ggccgcgctg ttgctaaggc ccaaccagct ctactgcggg gcggtgttg      420
tgcatccaca gtggctgctc acggccgccc actgcaggaa gaaagttttc agagtccgtc      480
tcggccacta ctccctgtca ccagtttatg aatctgggca gcagatgttc cagggggtca      540
aatccatccc ccaccctggc tactcccacc ctggccactc taacgacctc atgctcatca      600
aactgaacag aagaattcgt cccactaaag atgtcagacc catcaacgtc tcctctcatt      660
gtccctctgc tgggacaaag tgcttggtgt ctggctgggg gacaaccaag agcccccaag      720
tgcaattccc taaggctctc cagtgttgga atatcagcgt gctaagttag aaaaggtcgc      780
aggatgctta cccgagacag atagatgaca ccatgttctg cgccggtgac aaagcaggta      840
gagactcctg ccagggtgat tctggggggc ctgtggtctg caatggctcc ctgcagggac      900
tcgtgtcctg gggagattac ccttgtgccc ggcccaacag accgggtgtc tacacgaacc      960
tctgcaagtt caccaagtgg atccaggaaa ccatccaggc caactcctga gtcaccccag     1020
gactcagcac accggcatcc ccacctgctg cagggacagc cctgacactc ctttcagacc     1080
ctcattcctt ccagagatg ttgagaatgt tcatctctcc agcccctgac cccatgtctc     1140
```



|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ctggactcag | ggtctgcttc | ccccacattg | ggctgaccgt | gtctctctag | ttgaaccctg | 1200 |
| ggaacaattt | ccaaaactgt | ccagggcggg | ggttgcgctt | caatctccct | ggggcacttt | 1260 |
| catcctcaag | ctcagggccc | atccdtctc  | tgcagctctg | acccaaattt | agtcccagaa | 1320 |
| ataaactgag | aagtggaatc | ttaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1380 |
| a          |            |            |            |            |            | 1381 |

<210> 754  
 <211> 1439  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| <400> 754  |            |            |            |             |            |      |
| cccacgcgtc | cgcaggagag | gtgtctgtgc | gtcctgcacc | cacatctttc  | tctgtcccct | 60   |
| ccttgccctg | tctggaggct | gctagactcc | tatcttctga | attctatagt  | gcctgggtct | 120  |
| cagcgcagtg | ccgatggtgg | cccgctcttg | tggttcctct | ctacttgggg  | aaatcaggtg | 180  |
| cagcggccat | ggctacagca | agaccccct  | ggatgtgggt | gctctgtgct  | ctgatcacag | 240  |
| ccttgcttct | gggggtcaca | gagcatgttc | tcgccaacaa | tgatgtttcc  | tgtgaccacc | 300  |
| cctctaacac | cgtgccctct | gggagcaacc | aggacctggg | agctggggcc  | gggggaagac | 360  |
| gcccggctcg | atgacagcag | cagccgcctc | atcaatggat | ccgactgcga  | tatgacacc  | 420  |
| cagccgtggc | aggccgcgct | gttgctaagg | cccaaccagc | tctactgcgg  | ggcgggtgtg | 480  |
| gtgcatccac | agtggctgct | cacggccgcc | cactgcagga | agaaagtttt  | cagagtccgt | 540  |
| ctcgccact  | actccctgtc | accagtttat | gaatctgggc | agcagatgtt  | ccagggggtc | 600  |
| aaatccatcc | cccaccctgg | ctactcccac | cctggccact | ctaacgacct  | catgctcatc | 660  |
| aaactgaaca | gaagaattcg | tcccactaaa | gatgtcagac | ccatcaacgt  | ctcctctcat | 720  |
| tgtccctctg | ctgggacaaa | tgcttggtgt | ctggctgggg | gacaaccaag  | acccccaagt | 780  |
| gcacttccct | aaggctcctc | agtgtttgaa | tatcacgtgc | taagtcagaaa | aggtgcgag  | 840  |
| gatgcttacc | cgagacagat | agatgacacc | atgttctgcg | ccggtgacaa  | agcaggtaga | 900  |
| gactcctgcc | aggggtatcc | tggggggcct | gtggctcgca | atggctccct  | gcagggactc | 960  |
| gtgtcctggg | gagattaccc | ttgtgcccg  | cccaacagac | cgggtgtcta  | cacgaacctc | 1020 |
| tgcaagttca | ccaagtggat | ccaggaaacc | atccaggcca | actcctgagt  | catcccagga | 1080 |
| ctcagcacac | cggcatcccc | acctgctgca | gggacagccc | tgacactcct  | ttcagaccct | 1140 |
| cattccttcc | cagagatggt | gagaatgttc | atctctccag | cccctgacct  | catgtctcct | 1200 |
| ggactcaggg | tctgcttccc | ccacattggg | ctgaccgtgt | ctcttagttt  | gaaccctggg | 1260 |
| aacaatttcc | aaaactgtcc | agggcggggg | ttgcgtctca | atctccctgg  | ggcactttca | 1320 |
| tcctcaagct | cagggcccat | cccttctctg | cagctctgac | ccaaatttag  | tcccagaaat | 1380 |
| aaactgagaa | gtggaatcct | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa | 1439 |

<210> 755  
 <211> 1191  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 755  |            |            |            |            |             |     |
| gctgggctgg | aacacaagar | cccacagggc | tgccgtccac | actctcccgg | tcagagtcct  | 60  |
| gggaccacat | ggggacgctg | ccatggcttc | ttgccttctt | cattctgggt | ctccaggctt  | 120 |
| gggatactcc | caccatcgct | tcccgcagg  | agtggggggc | aaacccgctc | gcctgcaggg  | 180 |
| ccctgctgac | cctgcctgtg | gcctacatca | tcacagacca | gctcccaggg | atgcagtgcc  | 240 |
| agcagcagag | cgtttgacgc | cagatgctgc | ggggggttgc | gtcccatctc | gtctacacca  | 300 |
| taggctgggt | cgacgtggcg | tacaacttcc | tggttgggga | tgatggcagg | gtgtatgaag  | 360 |
| gtgttggtct | gaacatccaa | ggcttgacaa | cccagggtca | caacaacatt | tccctgggca  | 420 |
| tcgccttctt | tggcaataag | ataagcagca | gtcccagccc | tgctgcctta | tcagctgcag  | 480 |
| agggtctgat | ctcctatgcc | atccagaagg | gtcacctgtc | gcccaggtat | attcagccac  | 540 |
| ttcttctgaa | agaagagacc | tgcttggaac | ctcaacatc  | agtgatgccc | agraaggttt  | 600 |
| gccccaacat | catcaaacga | tctgcttggg | aagccagaga | gacacactgc | cctaaaaatga | 660 |
| acctcccagc | caaatatgtc | atcatcatcc | acaccgctgg | cacaagctgc | actgtatcca  | 720 |
| cagactgcca | gactgtcgct | cgaaacatac | agtcctttca | catggacaca | cggaaactttt | 780 |
| gtgacattgg | atatcaataa | ggccaggcgt | ggcggcgatt | acgtctgtaa | tcccaggact  | 840 |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| ttggggaggcc | aaggcgggca | gatcacttca | ggccaggaat | tcaagagcag | cctggccaat  | 900  |
| atggcgaaac  | tctgtctcta | ctgaaaacaa | acaaacaaac | aaacaaacaa | acaaagaaac  | 960  |
| aacaaaaatt  | agccgggtgt | ggtggcacac | gctgtagtc  | ccagctactc | aggaggctga  | 1020 |
| ggcataagaa  | ttgcttgaac | cctggaggcg | gaggttgcag | tgagctgaga | ttggggccacc | 1080 |
| gcactccagt  | ctgggagaca | gagtgagact | gtctcaaaac | aacaacaaaa | aaatccctaa  | 1140 |
| cataatctca  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | agggcggccg | c           | 1191 |

<210> 756  
 <211> 1626  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (525)..(525)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (542)..(542)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (562)..(562)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (607)..(607)  
 <223> n equals a,t,g, or c

|            |             |            |             |             |             |      |
|------------|-------------|------------|-------------|-------------|-------------|------|
| <400> 756  |             |            |             |             |             |      |
| ccacgcgtcc | gacgcggcgc  | acgcggcagt | cctgatggcc  | cggcattgggt | taccgctgct  | 60   |
| gcccctgctg | tcgctcctgg  | tcggcgctg  | gctcaagcta  | ggaaatggac  | agctactag   | 120  |
| catggtccaa | ctgcagggtg  | ggagattcct | gatgggaaca  | aattctccag  | acagcagaga  | 180  |
| tggtgaagg  | cctgtgcggg  | agggcagagt | gaaacccttt  | gccatcgaca  | tatttcctgt  | 240  |
| caccaacaaa | gatttcagg   | attttgtcag | ggagaaaaag  | tatcggacag  | aagctgagat  | 300  |
| gtttggatgg | agctttgtct  | ttgaggactt | tgtctctgat  | gagctgagaa  | acaaagccac  | 360  |
| ccagccaatg | aagtctgtac  | tctggtggct | tccagtggaa  | aaggcatttt  | ggaggcagcc  | 420  |
| tgcaggtcct | ggctctggca  | tccgagagag | actggagcac  | ccagtgttac  | acgtgagctg  | 480  |
| gratgacgcc | cgctgccta   | gtgcytkgsg | ggggraaacg  | actgnccac   | sggaggggaag | 540  |
| antggggagt | ttttccgccc  | gnaggggggc | ttgaarggtc  | caagtttacc  | ccatggggggg | 600  |
| aactggnttc | cagccaaacc  | gcaccaacct | gtggcaggga  | aagttcccca  | aggagagaaa  | 660  |
| agctgaggat | ggcttccatg  | gagtctcccc | agtgaatgct  | ttccccgccc  | agaacaacta  | 720  |
| cgggctctat | gacctcctgg  | ggaacgtgtg | ggagtggaca  | gcataccagt  | accaggctgc  | 780  |
| tgagcaggac | atgcgcgtcc  | tccggggggc | atcctggatc  | gacacagctg  | atggctctgc  | 840  |
| caatcacccg | gcccgggtca  | ccaccaggat | gggcaacact  | ccagattcag  | cctcagacaa  | 900  |
| cctcggtttc | cgctgtgctg  | cagacgcagg | ccggccgccag | gggagctgt   | aagcagccgg  | 960  |
| gtggtgacaa | ggagaaaagc  | cttctagggg | cactgtcatt  | ccctggccat  | gttgcaaaaa  | 1020 |
| gcgcaattcc | aagctcgaga  | gcttcagcct | caggaaagaa  | cttccccttc  | cctgtctccc  | 1080 |
| atccctctgt | ggcaggcgcc  | tctcaccagg | gcaggagagg  | actcagcctc  | ctgtgttttg  | 1140 |
| gagaaggggc | ccaatgtgtg  | ttgacgatgg | ctggggggcca | ggtgtttctg  | ttagaggcca  | 1200 |
| agtattattg | acacaggatt  | gcaaacacac | aaacaattgg  | aacagagcac  | tctgaaaggc  | 1260 |
| cattttttaa | gcatttttaa  | atctattctc | tccccttttc  | tccctggatg  | attcaggaag  | 1320 |
| ctgmacattg | tttccctcaag | gcagaatttt | cctgtgtctg  | ttttctcagc  | cagttgtctgt | 1380 |
| ggaaggagaa | tgctttcttt  | gtggcctcat | ctgtgggtttc | gtgtccctct  | gaaggaaact  | 1440 |

```

agtttcact  gtgtaacagg  cagacatgta  actattttaa  gcacagttca  gtcctaaaag  1500
ggctctgggag  aaccagatga  tgtactagg  gaagcattgc  attgtgggaa  tcacaaagca  1560
aatagtactc  cagaaagacc  ctgtctcaaa  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  1620
aaaaaa  1626

```

```
<220>
<221> misc_feature
<222> (496)..(496)
<223> n equals a,t,g, or c
```

```
<210> 758
<211> 1120
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (6)..(6)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (13)..(13)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc_feature
<222> (17)..(17)
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc_feature  
<222> (1020)..(1020)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc_feature  
<222> (1084)..(1084)  
<223> n equals a,t,g, or c
```

```

<400> 758
cttaancggg ggnccanggg gaaaactcgt gacmytatag aaggtagcc tgcaggtacc 60
ggtccggaat tcccgggtcg acccacgcgt ccggagccag gcagtgagac tggctcgggc 120
gggccgggac gcgtcggttg agcagcggct ccagctccc agccaggatt ccgcgcgcc 180
cttcacgcgc cctgctcctg aacttcagct cctgcacagt cctccccacc gcaaggctca 240
aggcgccgcc ggctgggacc gcgcacggcc tctaggtctc ctgccagga cagcaacctc 300
tcccctggcc ctcatgggca ccgtcagctc caggcggtcc tgggtggccgc tggcactgct 360
gctgctgctg ctgctgctcc tgggtcccgc gggcgcccgt gcgcaggagg acgaggacgg 420
cgactacgag gagctggtgc tagccttgcg ttccgaggag gcggcctgg ccgaagcacc 480
cgagcacgga accacagcca ccttccaccg ctgcgccaaag gatccgtgga ggttgcctgg 540
cacctacgtg gtggtgctga aggaggagac ccacctctcg cagtcagagc gcactgcccg 600
ccgcctgcag cccagggcg ataccctcacc aagatcctgc atgtcttcca 660
tggccttctt cctggcttcc tgggtgaagat gagtggcgac ctgctggagc tggccttgaa 720
gttgcctcat gtgcactaca tcgaggagga ctctctgtc tttgcccaga gcatcccggtg 780
gaacctggag cggattaccc ctccacggta ccgggcggat gaataccagc cccccgacgg 840
aggcagcctg gtggaggtgt atctcctaga caccagata cagagtgacc accgggaaat 900
cgagggcagg gtcatggtca ccgacttcca gaatgtgccc gaggaggacg ggaccgcctt 960
ccacagacag gccagcaagt gtgacagtca tggaccaccc tggcaggggt ggtcagcggn 1020
cgggatgccg gcgtggccaa ggggtgccagc atgcgcagcc tgcgcgtgct ttcccaaaaa 1080
aaanccctt ttggggggcc cccccaaaa aaaggggggg 1120

```

```

<210> 759
<211> 1893
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (5)..(5)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1853)..(1853)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1871)..(1871)
<223> n equals a,t,g, or c

```

```

<400> 759
ngggnntttt tttttttttt ttttttttag gacaacgttt gtttgttttt attttaaaa 60
gtcaccatat taataaaaaat gctacaaaac ccagaataaa tatcttcaag ttacaaaagc 120
aaaacagggtc tagaaaaagt ggctgtaaaa aggcaacaga gaggacagac ccaaaagata 180
aatgtctgct tgcttgggtg gggctgggtc tcaaggaggg acagttgttg gccctctccc 240
ccgaccatgc cttagaagca tdcggccag gccagtgaat caggcctggg tgataacgga 300
aaaagttcca tgctgcagg catcgttctg ccatactca ccgagcttcc tggctgtgt 360
tccccttccc agcctcactg ttaccgtaa aaatgaggag ccagccggg tgaagtaaga 420
agaggcttgg cttcagagcc agccaatct gcgttctg ctcagttcct gctgtgag 480
cttggcaggc acgccccctc tggttccagg tttcttctc tgtgaagtag ggggtgcgaak 540
wgtgtactgc cgggtagtgg agcgggttgg ctgagacagt gcatgcacca ctgcacactg 600

```

|             |            |             |             |             |            |      |
|-------------|------------|-------------|-------------|-------------|------------|------|
| ccgagtcagt  | cctaggtgat | ggctccccgc  | aggccacctt  | tgggtgttgc  | tagcacagcc | 660  |
| tggcatagag  | cagagtaag  | gtggctcagg  | aaaccaagca  | cagcctgtga  | ccaccagggg | 720  |
| crcacctgtc  | tccagctctg | gctagatgcc  | atccagaaaag | ctaagcctcc  | attaatcagg | 780  |
| gagccccag   | gggtttctcc | acagttagct  | ggagatgagg  | gccatcagca  | cctttcacac | 840  |
| tmacccccca  | acgatgtttg | tccctgcagc  | ccctaccgcc  | ccctcccta   | tccatgggaa | 900  |
| gaatcctgcc  | tccttggtgg | agacctgagg  | attgaatgcc  | tggcacggaa  | caagagctca | 960  |
| ataaaagtca  | ttctgcccac | ggacatcggc  | acattgggag  | cagctggcag  | cacccgagca | 1020 |
| cagctcgacc  | tgtttgaatg | gtgaaatgcc  | ccacagttag  | ggagggagct  | tcctggcacc | 1080 |
| tccacctggg  | gaggaggcac | ccagagttag  | tgagttccag  | gcaaggaggc  | tgccccactc | 1140 |
| aaggggccagg | ccagcagccc | cggaaaggcg  | gaagcatccc  | catccccctcg | tgccaggcca | 1200 |
| tggagggctg  | agagagggac | aagtcggaac  | catttttaaag | ctcagcccca  | gcccttgacc | 1260 |
| ctccccagac  | accatcctg  | ggatggggct  | gtcactggag  | ctctggggag  | gcctgcgcca | 1320 |
| ggtgccggct  | ccggcagcag | atggcaacgg  | ctgtcacggc  | ctcttcgctg  | gtgctgcctg | 1380 |
| tagtgctgac  | gtcccggctc | ctgactacac  | acgtgttgct  | tacggcgtag  | gccccagga  | 1440 |
| cgtgggaggt  | cccagggagg | gcactgcagc  | cagtcagggt  | ccagccctcc  | tcgcaggcca | 1500 |
| cggtcacctg  | ctcctgaggg | gccgggattc  | catgtcctt   | gactttgcat  | tccagacctg | 1560 |
| gggcatggca  | gcaggaagcg | tggatgctgg  | cctccctgtg  | gcccacgcac  | tggttgggct | 1620 |
| gacctcgtgg  | cctcagcaca | ggcggcttgt  | gggttccaar  | rtccctccacc | tcccagtggg | 1680 |
| agctgcagcc  | tgtgaggacg | tggccctggt  | gggtggcagt  | gacacgggtc  | cccatgctgg | 1740 |
| cctcagctgg  | tggagctgtg | tggacgctgc  | agttggcctg  | gggtagcaga  | cagcacctgg | 1800 |
| caatggcgta  | gacaccctca | cccccaaaag  | cgttgtgggc  | ccgggagccc  | aanttsaaag | 1860 |
| aagattcccc  | nttccccccc | stcccccgctg | tgc         |             |            | 1893 |

<210> 760

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (39)..(39)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (46)..(46)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1052)..(1052)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1108)..(1108)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1129)..(1129)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1138)..(1138)

<223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1158)..(1158)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1172)..(1172)  
 <223> n equals a,t,g, or c

<400> 760  
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 atgcgagcc tgcgctgct caactgccaa ggggaaggca cggtagcgg caccctcata 120  
 ggcctggagt ttattcggaa aagccagctg gtccagcctg tggggccact ggtggtgctg 180  
 ctgcccctgg cgggtgggta cagccgcgtc ctcaacgccg cctgccagcg cctggcgagg 240  
 gctggggctg tgctggtcac cgctgccggc aattccggg acgatgcctg cctctactcc 300  
 ccagcctcag ctcccaggt catcacagtt ggggccacca atgcccagga ccagccggtg 360  
 accctgggga ctttggggac caactttggc cgctgtgttg acctctttgc ccaggggag 420  
 gacatcattg gtgcctccag cgactgcagc acctgctttg tgtcacagag tgggacatca 480  
 caggctgctg cccacgtggc tggcattgca gccatgatgc tgtctgccga gccggagctc 540  
 accctggccg agttgaggca gagactgatc cacttctctg ccaaagatgt catcaatgag 600  
 gcctggttcc ctgaggacca gcgggtactg acccccaacc tggtggccgc cctgcccccc 660  
 agcacccatg ggcaggttg gcagctgtt tgcaggactg tgtggtcagc acactcgggg 720  
 cctacacgga tggccacagc catcgccccg tgcgccccag atgaggagct gctgagctgc 780  
 tccagtttct ccaggagtgg gaagcggcgg ggcgagcgca tggaggcca agggggcaag 840  
 ctggtctgcc gggcccacaa cgcttttggg ggtgaggggtg tctacgccat tggcaggtc 900  
 tgctgtctac cccaggccaa ctgcagcgtg cacacagctt caccagctga ggccagcatg 960  
 gggacccgtg tccactgcac caacagggcc acgtcctcac aggtgcagc ttccactggg 1020  
 aggtggaaga accttggcac ccacaagccc gncttgtgct gaagccacca aggtcaagcc 1080  
 caaccaagtg ccgtgggcca aagggaagg ccaagcattc cacgctttnc ttgcttgnca 1140  
 ttgcccccaa gtcttgnaa tggcaaaagt cnaaggaagc attggga 1187

<210> 761  
 <211> 2351  
 <212> DNA  
 <213> Homo sapiens

<400> 761  
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 gagctgttcg taaagtcgcc cgacagcttt ttctccgtag tatgaggtt gacaaaacag 120  
 ccagagaaca gggctcccca ttacaatctt ttccagatct tttcccttgc taaccggatc 180  
 tgatttgtgc gaaaacatgc cttgcacttg tacctggagg aactggagac agtggattcg 240  
 acctttagta gcggtcatct acctggtgtc aatagtgggt gccggtcccc tatgctgtg 300  
 ggaattacag aaactggagg ttggaatata caccaaggct tggtttattg ctggaatctt 360  
 tttgctgtga ctattcctat atcactgttg gtgatattgc aacacttagt gcattataca 420  
 caacctgaac taaaaaacc aataataagg attctttggg atggtacctt ttacagttt 480  
 tagatagttg gatagctttg aaatatcccg gaattgcaat atatgtggat acctgcagag 540  
 aatgctatga agcttatgta atttacaact ttatgggatt ccttaccat tatctaacta 600  
 accggtatcc aaatctggta ttaatccttg aagccaaaga tcaacagaaa catttcctc 660  
 ctttatgttg ctgtccacca tgggctatgg gagaagtatt gctgtttagg tgcaaactaa 720  
 gtgtattaca gtacacagtt gtcagacctt tcaccaccat cgttgcttta atctgtgagc 780  
 tgcttggtat atatgacgaa gggaaacttta gcttttcaaa tgcttggaact tatttggtta 840  
 taataaaca catgtcacag ttgtttgcca tgtattgtct cctgccttt tataaagtac 900  
 taaaagaaga actgaaccca atccaacctg ttggcaaat tctttgtgta aagctggtg 960  
 tttttgtttc tttttgattt ggcgtttacc ttttcctaac atataggcaa gcagtagtta 1020  
 ttgctttgtt ggtaaaagt ggcgttattt ctgaaaagca tacgtgggaa tggcaaactg 1080



|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| ggtacactta | tagcatgta  | tcagtcata  | gaatataccta | tgctgtcttg | acatgggctc  | 300 |
| agtcaaacac | tatggatgcc | aatttatcct | ttgtgtgttc  | ttgctgaagc | atttgccatc  | 360 |
| tatcaatcgc | tggttattt  | tgaatcattt | ggcacttatt  | ccaccaagct | gccctttgac  | 420 |
| ttatccatct | atttcccata | tgtgctgaaa | atatacttca  | tgatgctct  | tatagggtatg | 480 |
| tattttacct | acagtcattt | atactcagaa | agaagagaca  | tcctcggaat | ctttccatt   | 540 |
| aaaaaaaaa  | agatgtgaag | tacagcattc | cagtgtgaca  | cgagaaaaa  | caggctgtgg  | 600 |
| attcagtgc  | gtaaataaaa | cacaggaagt | attctggtgg  | aaaaaaaaa  | aaaaaaaaa   | 660 |
| aaaaaaaaa  |            |            |             |            |             | 669 |

<210> 764  
 <211> 1356  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1231)..(1231)  
 <223> n equals a,t,g, or c

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| cccacgcgtc | cgaaagaatg  | ttgtggctgc  | tcttttttct  | gggactgcc   | attcatgctg | 60   |
| aactctgtca | accagggtgc  | gaaaatgctt  | ttaaagttag  | acttagtata  | agaacagctc | 120  |
| tgggagataa | agcatatgcc  | tgggatacca  | atgaagaata  | cctcttcaaa  | gcgatggtag | 180  |
| ctttctccat | gagaaaagtt  | cccaacagag  | aagcaacaga  | aatttcccat  | gtcctacttt | 240  |
| gcaatgtaac | ccagaggtat  | cattctgggt  | tgtgggttaca | gacccttcaa  | aaaatcacac | 300  |
| ccttcctgct | gttgagggtgc | aatcagccat  | aagaatgaac  | aagaaccgga  | tcaacaatgc | 360  |
| cttctttcta | aatgaccaa   | ctctggaatt  | tttaaaaatc  | ccttcacac   | ttgcaccacc | 420  |
| catggaccca | tctgtgcccc  | tctggattat  | tatatattgt  | gtgatatttt  | gcacatcat  | 480  |
| agttgcaatt | gcactactga  | ttttatcagg  | gatctggcaa  | cgtagaagaa  | agaacaaaga | 540  |
| accatctgaa | gtggatgacg  | ctgaagataa  | gtgtgaaaac  | atgatcacia  | ttgaaaatgg | 600  |
| catccctct  | gatccctctg  | acatgaaggg  | agggcatatt  | aatgatgcct  | tcatgacaga | 660  |
| ggatgagagg | ctcacccttc  | tctgaagggc  | tgtgtttctg  | cttcctcaag  | aaattaaaca | 720  |
| tttgtttctg | tgtgactgct  | gagcatcctg  | aaataccaag  | agcagatcat  | atattttggt | 780  |
| tcaccattct | tctttttgta  | ttaaattttga | atgtgcttga  | aagtgaagag  | caatcaatta | 840  |
| taccaccaa  | caccactgaa  | atcataagct  | atcacgact   | caaaatattc  | taaaatattt | 900  |
| ttctgacagt | atagtgtata  | aatgtggtca  | tgtgggtattt | gtagtatttg  | atttaagcat | 960  |
| ttttagaaat | aagatcaggc  | atatgtatat  | attttcacac  | ttcaaagacc  | taaggaaaaa | 1020 |
| taaattttcc | agtggaggat  | acataataa   | tgggtgtagaa | atcattgaaa  | atggatcctt | 1080 |
| tttgacgac  | acttatatca  | ctctgtatat  | gactaagtaa  | acaaaagtga  | gaagtaatta | 1140 |
| ttgtaaatgg | atggataaaa  | ttggaattac  | tcatatacag  | gggtgggattt | tatcctgtta | 1200 |
| tcacaccaac | agttgattat  | atattttctg  | nataatcagcc | cctaataagga | caattctatt | 1260 |
| tgttgaccat | ttctacaatt  | tgtaaaagt   | caatctgtgc  | taacttaata  | aagtaataat | 1320 |
| catccaaaaa | aaaaaaaaa   | aaaaaaaaa   | aaaaaa      |             |            | 1356 |

<210> 765  
 <211> 1063  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (444)..(444)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (962)..(962)